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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11292	41660	A	11360	35	142	
11293	41661	C	11361	151	484	
11294	41662	A	11362	1	1245	
11295	41663	A	11363	2	1464	CQAKFIMNRLKK/NERQKVQDI KEVKQNIHLIRASFAGKGKQLE EKMQPLEPEAIMLSELMQEQKT KCRMFSLSISGKHGVHMDSKTG ATDSGAYLRVEEIQTIREYYK HLYANKLENLEEMDKFLDKYT LPRLNQEEVESLNRPIITGAELAI ISSLPTKKSPGPDGFTAIFYLRY KEELVPFLKLSQSIEREGILPNS FYEASIIIPKPGRDTTKKNFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNL RKSINVIQHINRAKDKNHMISI HEEKAFDKIQQPFMLKTLNKL IDGTYLKIIRAIYDKPTANIILNG QKLEAFPLKTGTRQGCPSPLL FNIVLEVLAIRAEKEIKGIHL GKEEVTLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASRRIKYLGIQLTRDMKD LFKENYKPLLSEIVTVF
11296	41664	A	11364	41	559	
11297	41665	C	11365	63	370	
11298	41666	A	11366	3	211	
11299	41667	A	11367	47	358	PDMGLEDEQKMLTESGDPEEE EEEEELVIGLRLSVHTGNLGRP GM*NFPLLSIQN*MGDPHSAIS GGQCGSASWPSARIPLQQVREQ CRASWKKCVK\ARERLE\ACDE R\*SSRSHEEDCT\EELDFD\H A\RDHC\VAHKLL*QLAFCTDPP TTSERAMPSQLEEMCKRPGSG
11300	41668	A	11368	1	2082	

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11301	41669	A	11369	1	2013	MKHLKRWSAGGGLLHLLTLL LSLAGLRVDLDLYLLLPPPTLL QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLLREVRALGVFPVPTSV DAWLVSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGGCASEE NGVLREKHEAVDHSSQHEENE ERVSAQKENSLOQNDDEENKI AEKPDWEAEKTTESRNEGISLG DIPLPGSISDGMNSSAHYHVNF QAISQDVNLHEAILLCPNNTFR RDPTARTSQSQEPFLQLNSHTT NPEQTLPGTNLTGFLSPVDNHM RNLTSQDLLYDLINIFDEINLM SLATEDNFDPIDVSHLFDEPDS DSGLTLDSSHNTSDIKSNSSHS VCDEGAIGYCTDHE\SSSHDL EGAVGGYYPEPSKLCHLDQSDS DFHGDLTQHVFNHTYHLQP TAPVESTS\EPFPWPGGRSQEGL RE*DTLKDTRNLSRDEQRAK ALHIPF\SVDEIVGMPVDSFNSM LSRYLTDLQVSLIRDIRRGK NKVAAQNCRRKLDIILNLEDD VCNLQAKKETLQREQAQCCKA INIMKQKLHDLYHDIFSRLRDD QGRPVPNPYHALQCTHDGSILI VPKELVASGHKKETQKGKRRK
11302	41670	A	11370	3	255	
11303	41671	A	11371	1	1611	
11304	41672	A	11372	109	207	MLCLQRFYMIFVDFQSRPQF*L KSCQHII SCHQ
11305	41673	A	11373	1	666	
11306	41674	A	11374	1	1254	

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11307	41675	A	11375	33	1458	KLPLKAKMGKEKTHINIVVIGH VDSGKSTTTGHLIYKCGGIDKR TIEKFEKEAAEMGKGSFKYAW VLDKLKAERERGITIDISLWKFE TSKYYVTIIDAPGHRDFIKNMIT GTSQADCAVLIVAAGVGEFEA GISKNGQTRHALLAYTLGVK QLIVGVNKMDSTEPPYSQKRYE EIVKEVSTYIKKIGYNPDTVAFV PISGWNGDNMLEPSANMPWFK GWKVTRKDGNASGTTLLEALD CILPPTRPDTKPLRLPLQDVYKI GGIGTVPVGRVETGVLPKGMV VT\FAPDNTTTEV*SVEMHHEA LSEALPGDN/VGAFNVKNVSVK DVRRGNVAGDSKNDPPMEAA GFTAQVIILNHPGQISAGYAP\V LDCHT\AHIACKF\AELKKI\DR RF\GKKLED\GPK\FWKS GDAAI VDMVP\GKP\MCVESFS DY PPL GPFVHDMRQT\VAGGAHQKQ VDKK\AAGA\GKVTK\SAQKAQ
11308	41676	A	11376	1	880	
11309	41677	A	11377	1304	2340	KETEAQRKRLRRNEPEEQEIRT RKTRSPQTPDQQTYKKGRNER LCGISQPTKEPTRGGFCRFRNPP SNRIFACWGKPAWTACCNSLR ARRMLMERNARAAGSRKRMG RMDCWARVLDI\NLAAEAKSEP EKKAGVKRICKRRCTGSSFDL\ DY*LFNGDY YDRMYSYP\ARVP PPPPIARAVVP\SKRQRVSGNTS RRGKSGFNSKSGQRGSSKSGKL KGDD\LQAIKE\ELT\QIKRKSGF LFLGKTWEKIEKEQSKQAVEM KK**SQKEEQSSQLR*KKDET*C *RLEV LKGG A\EDSA\EEGDLLD DDDNEDRGDDQLELIKDDKE\A EEEEDDRD\SANGR\DDSLST

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11310	41678	A	11378	80	1141	ETQNRISPPSPSCEIFLIFS YIFRL CEKPYHQTRSASNVTNKTDPRS MNSRVFIGNLNTLVVKKSDVE AIFSKYGKI\VGCSVHKGFALS F SMLMKRNARAAVAG\EDGRMI AGQVLDINLAAEPKVN RGKAG VKRSAAEMYG/SQ*QNTLLRPL YFSSFDLDYDFQRDYYDRMY SYPARVPPPPPIARAVVPSKRQR VSGNTSRRGK\SGFNSKEWNSG VSSKFWKR*KGDDLQ\AIKEEL TQIKQKVDSL\LENLEKIEKEQS KQAVEMKNDKSEEE\QSSSSVLK KDET\NLKMESEGGCRLTLPEE GDP\LD**YDE**RSGGNDPAGS *SKDDEK\EAEE\GEDDRD\SAN GEDDS
11311	41679	A	11379	1	1134	
11312	41680	A	11380	1	642	
11313	41681	A	11381	397	898	
11314	41682	A	11382	1	663	
11315	41683	A	11383	44	398	ATMLGLNIISRKWFYKSSEKSL GLRGGLGRPLAFTLYSLLQAAL LCVNAIAVLHE/ERRISSKNICA GGTRTIGIGWIWEKEPGIKSQL MNLIRSVRTEM RVPLIIVNSIAI VLLLLFG
11316	41684	A	11384	3	754	GLYYRK CQLISKEDVTHDTRLF CLMLPPSTHLQVPI/GEHVYLKL PITGTEIVKPYTPVSGSLLSEFKE PVL PNNKYIYFLIKIYPTGLFTPE LDRLQIGDFVSVSSPEGNFKISK FQELEDLFLLAAGTGFTPMVKI LNYALTDIPSLRKVKLMFFNKT EDDIIWRSQLEKLAFKDKRLDV EFVLSAPISEWNGKQGHISPALL SEFWKRNLDKSKVLVCICGPVP FTEQGVRL LHDLNFSKNEIHSFT
11317	41685	A	11385	1	1785	
11318	41686	A	11386	95	369	
11319	41687	A	11387	511	728	
11320	41688	A	11388	1	100	
11321	41689	A	11389	1	777	

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11322	41690	A	11390	2	707	PNPKCR*VFPVFLFYRPI*PFPSS PA/SLIARPS*VPILPQPPLL/TPY NPPTTSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVNAHVP FSLSDLSQISQHLGSFSSDPTKYI QEFYRLTSLYNLTWSDLNVILT STLSPDERERVFPVSQSH/V**P/ SGFMSQTSRKALEQFPERIPQW NYQANSPGKNFKN*NLALKPH NRN*STLPSTCTIHERKQPDGNA FLSYNYLPP
11323	41691	A	11391	2	339	LLLFRSLPAKLNQAPILPWPL/PP PPYNPSITSPVHTWFSLQFHSET SPPPPAQQFPLRAVAGTEGIVR MNGKEFFLQPNLTLITAGFKSQ TSRKALEQFPERIPNGTIRQIPQ
11324	41692	A	11392	1	993	
11325	41693	A	11393	3	1127	TKETRFIHGPKTPAPVTDWEGS LPLVFNHCRDASLIHSRFGVR PHRDTCLGPSPLAASPAFLGKG QAAHCQAELSPNSSASTPPPY NPSITSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVRVHVP FSLSDLSQISQCLGSFSSDPTKY TQEFQCLTSLYNLTWSDLNVIL TSTLSPDEWERVSSLAQSHADN VPGFTSQTSRKALEQFPE/TDPQ WNHQANSPGIARRDYMVSCLV EGLKKAAYKAVNYDKLKETTQ GEDENPAQVVARLAATLRRFT ALDPEGPEGRILNMHFITQSAP DITKKLQKLESGPQTPQQELINL TFKVHNNGEETDAARSPWKPP GPSRTPSFRACFPCPHNFCGY
11326	41694	A	11394	1	312	
11327	41695	A	11395	1	244	MFADR*LFSTTHQSIVPLYL\LF GA*AGVLATA\LSLLIRAELGQP GNLLGNDHIYNVIVTAHAFVIIF FIVIPHIIGGFGN*LVPLIIGAPDM AFPRINNISF*LLPPSLLLLLASA IVE\AGAGTRLNKSYP\LAGNY SHPWKPPVDLTIFSLHLAGVSSI LGAINFITTIINIKPPAITQYQTPL FV*STTHQSHRTTIPIYSAHELA SSPQPLSLLIRAELGQPGNLLGN DHIYNVIVTAHAFVIIFIVIPHIIG GFGN
11328	41696	A	11396	1	1287	
11329	41697	A	11397	3	583	

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11330	41698	A	11398	3	419	ILSISKLRRTSLAGEGSVDTPKAS GVTRHIKGPVAAEMSAFILPL PG*VSPGWEWAASAVLNGLRT TLALRRGVCLIRSRPGTLGLED GASPRTESLHTGTACKGAVDGS SEVDEKLKRIALDFLGLHGGDD PRSSWH
11331	41699	B	11399	1	1242	
11332	41700	C	11400	504	755	
11333	41701	A	11401	155	710	ETETTGEREGSLSNHPSNPTAA GLSLDTMKSHCPNHSSLLSTAA SPPKLWRCFKEEH\ELAVLGAP PKPLLPTSHRDPTSASVYLRAP THVVWSLFKHP\LS*TPCCMGFI AFA\YSVKSRDRKIGCERDPGPI AYASTAK\CLNIWALILGLLHD HSGSSSPVLIVPGLWDRSGGIT GGQELCP
11334	41702	A	11402	1	1158	
11335	41703	A	11403	80	996	LKGKFLMSG\ALDVLQMKEE DVLKFLAA\GTH\LGGTNLD\FH MEQYIYKRKSDGIYIILMRTW EKLL\LAARAIVAIENPADVSAI SSRNTGQRAVLKFAAATGATPI AGRFTPGTFTNHIQAAFRE\PR/L LVVTDPRADHQPLTEASYVNL TIALCNTDSPLRYVDIAIPCNNK GAHSVGLMWWMLAREVLRM RGTISREHPWEVMPDLYFYRDP EEIEKEEQAAAEKAVTKEEFQG EWTAPAPEFTATQPEVADWSE GVQVPSVPIQQFPTEDWSAQPA TEDWSAAPTAAQATEWVGATTD WS
11336	41704	A	11404	1	819	
11337	41705	A	11405	1	1032	
11338	41706	B	11406	63	344	
11339	41707	A	11407	49	281	FFKSTVCSFQKQFQTLVPVIGGS IMY*DISDHRGQR**NVGPCGH
11340	41708	A	11408	985	1213	TQCVTINY*GMKWGSFGYIVFH KDGICALIDKRFHTFCVSFKGSQ IQSSAAFLIPDVQVHQRLQKDF QGLMVPVIGS
11341	41709	A	11409	1	774	
11342	41710	A	11410	3	249	
11343	41711	A	11411	3	619	
11344	41712	A	11412	3	493	

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11345	41713	A	11413	3	292	DALPRWPSGSGDGGAVREAGQ QGTRLERPAAVLIRAADPGRR TQALA/GLPRG*PHPRMDPPESFQ ATGGTQQMTSTAPSWLTM*LR SVSGW*ELKD
11346	41714	B	11414	190	315	
11347	41715	A	11415	227	545	
11348	41716	A	11416	1	1896	
11349	41717	B	11417	52	1822	
11350	41718	A	11418	1	458	
11351	41719	C	11419	196	327	
11352	41720	A	11420	258	375	TRALSKFGSSRVEQS*AGYSGP GTP*EGGSGILGETVC
11353	41721	A	11421	3	854	
11354	41722	A	11422	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGTHGTDVSDGFKG GLIEIPDSIGKDKEKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
11355	41723	A	11423	1	642	
11356	41724	A	11424	260	534	
11357	41725	A	11425	1	438	
11358	41726	C	11426	391	750	
11359	41727	A	11427	786	926	AQQQRQETIQGGRSLRTLYL* GRSGTSLSQKLAQLSSLTGDST
11360	41728	A	11428	488	649	VLQLLKV AHP E L F I P P G G F V F S L TSGVKLHT*ALQLLKV AHP E L L I P P G S W S H
11361	41729	A	11429	1	2028	
11362	41730	A	11430	1022	1417	SLMGTSTSSALGMHVPRAITRD VLSAPVIVSGNTAKFCTMLGHF LKKTRTERRDIQAP*SFISLPPKS TWEKLSSAAMVSTLR*GASDQ K/C*LLGGNDRVSLIVIQVEG\PL QDPGTLGRLLQSLTVKRISV
11363	41731	A	11431	1	535	
11364	41732	A	11432	3	1186	
11365	41733	A	11433	201	458	QVDGCIPELV*F*KKRGRGR RGRRRRRRGRRRREEGGGGGGG SFWRTHHTKPKDQHKKDTMG HFRSCAFQEGFVVHVPLLSSEK
11366	41734	A	11434	1392	1532	AQQQRQETIQGGRSLRTLYL* GRSGTSLSQKLAQLSSLTGDST
11367	41735	A	11435	1253	2820	
11368	41736	A	11436	1504	1718	VIGIWALALGILARPQRGFHV VHLQDVGGA*AAKGLLRNVV R**VDQVQVSGAQGIAGVVVT VGGEEDF
11369	41737	B	11437	1	1383	

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11370	41738	A	11438	3	310	VHGRASSLGVG/TPIPKGHGQIK P/DRLKPPVYGACKLLDMELEM AFFVGPGRNRLGEP/IPISKAHEPI FGMVLNNAWSARHIQKWEYV PLGPFLGKSFGTPVKSS
11371	41739	A	11439	1	1337	MSFIPVAEDSDFPIHNLPGVFS TRGDPRPRIGVAIGDQILDLSIK HLFTGPVLSKHQDVFNQPTLNS FMGLGQAAWKEARVFLQNLLS VSQARLRDDTELKCAFISQAS ATMHLPATIGDYTDFYSSRQHA TNVGIMFRDKENALMPNWLHL PVGYHGRASSVVVSGTPIRRPM GQMKPDDSKPPVYGACKLLDM ELEMAFFVGPGRNRLGEPISKA HEHIFGMVLMNDWSARDIQKW EYVPLGPFLGEEFWGHCLLPW VVPMDALMPFAVNPQKQGRG PCRYLCHDEPYTFDINLSVNLK G\EGMSQAAT\ICKVQILKMY WT\MLQQAHSPTLSNGC\NLARP GDLLGFLGPI\SGPGAQKNFGS\ MLELSWKGTKPID\LGNGQTR KFLLD\GDEVIIITAMATRDFKW YS\QGDGYRIGFGQ\CAGKVLP ALLPIMRFFLLF
11372	41740	B	11440	100	383	
11373	41741	A	11441	1	263	MEYYAAIKKDEFMSFVRIWMK LETIILSKLSQGQKTKHRRFSLI DG/IHHRSFTRTENSSTRTGRKC WN**PTCGLARSWFGKTWSGN
11374	41742	A	11442	2	160	
11375	41743	A	11443	150	308	CLHR*GRGSPRPGPGGGSTGGA GPGAGPSLAPPLPAQNAEGLGG RRRGNKYL
11376	41744	A	11444	1	372	
11377	41745	A	11445	49	177	SQQGLYAKPTSSQAL*GDGQAS AEMGRILSYE*EHAVFGFSSL
11378	41746	B	11446	1	420	
11379	41747	C	11447	1	334	
11380	41748	C	11448	1	268	
11381	41749	C	11449	1	564	
11382	41750	A	11450	1	264	
11383	41751	A	11451	33	194	
11384	41752	C	11452	1	309	
11385	41753	A	11453	1	738	
11386	41754	A	11454	1	2028	



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11387	41755	A	11455	3	1008	LKDAVFSIRISPESQKLFAFQWE DPESGVTTQYTWLTQGFENS PTIFGEALARDLQKFPKDLGCI LLLYMDDLLLGHSTAVRCAKG MDALLQHLEDCGYKVSCKKA QICRQQVTKWGDWERFEWEPL QQQAFCKLKEKFMSAPALGLP DLTKPFTLYVSEREKTAVGVLI QTVGPWPTPVAYLSKQLDGVS KGWPPCLRALAATALLAQEAD KLTLVQNLNIKAPHAVGTSAQ KPELIALTRAELSEGTWMKLE TIILSKLSQGQK/DQTLHVLTGIS RST*ACSCLASLQVGLETGSQ SLENPLRVGIQRRRCFTCAVDG EGFLLGVPMA
11388	41756	A	11456	677	879	KRRNHQILEIRSHLQSVEDNLK SGLGSTASL*MSWTQPRNGAE VGFLILGYIKETPRNAETPSMV
11389	41757	A	11457	1	624	
11390	41758	A	11458	3	130	VEEEQGHFSFRNAR*IISW*RNEN GLDRMDCSCRNGERDKGHG
11391	41759	A	11459	1	1477	MADPPWSSVQVKNKYDSGLLSS VSAEPLASSASSHPGMSDNAPA SLESGSSSTPTNCSTSSAIPQPGA ATKPWRSKSLSVKHSATVSML SVKPPGPEAPRPTPEAMKPAPN NQKSMLEKLLKLFNSKGGSKAG EGPGSRDTSCERLETLPSEFESE ELEAASRMLTTVGPASSSPKIAL KGIAQRTFSRALTNKKSSLKGN EKEKEKQQREKDKEKSKDLAK RASVTERLDLKEEPKEDPSGAA VPMPKSSKIASFIPKGGKLNS AKKEPMAPSHSGIPKPGMKSM GKSPSAPAPSKEGERSRSGKLSS GLPQQKPQLDGRHSSSSSSSLASS EGKGPGGTTLNHSISSQTVSGS VGTTQTTSNTVSVQLPQPQQQ YNHPNTATVAPF*EGFHL*HA *VITF*TANYASSDNDLNVGYT H*LTASEFFQSRLSSLGEVAGLH AHTC*A*LGSNIPFSVRLRPVA ASAEDLRGHQGLIKDRAQVS
11392	41760	A	11460	1	327	LLLMGLKHNVLKLPKPMVTL RESVWETLNFLK*SFV*LNMLIF KKSS*RLQ*VRFHFLCPRVLIVQ LPFMSENMRCLVFCSCVSLLRM MVSSFIHVPFFKVLSSFFALG
11393	41761	B	11461	119	203	
11394	41762	B	11462	1	677	

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11395	41763	A	11463	2	74	
11396	41764	A	11464	1	1256	MSASQDSRSRDNGPDGMEPEC VIESNWNEIVDSFDDMNLSESL LRDIYAYGFEPKPSAIQQQAILPC IRGYNVIAQARSGTGKMATFAI SILQQIELDLKATQALVLAPTRE LAQQIQKVVMALVDYMGASC HACVRGTNMRAEVQKLQMEA PHIIVGTPSRVFDMLYR\RYLAP\ KSIRMLVLNEADEMLSRGFKG QIYDISKRLNSTTK\VVLLSAT MPFD\VLEVTKKFMGRPH/IRIL VKKEELPLEGIRHFYINVEPEE\F NLD TLC\DWYEP*PITQAVIFHQ PPGGKVDW/LSPEKMHARDST VPPMHGDMTKKE\RD\VIMREF RSGS*PEF*ITPLTLPGQRPLMC QPGFL*SFKLMTLPPPTRGKLLI HRNRSRVDRFGRKGVA\INMVT EED\KRTLARDIETFY\NTSIEEMP
11397	41765	A	11465	1	402	KSRGRGLPYTMDAFMLGMMGM LKYPNFVAT*ARGYPGFAPSYG YQFPGFPAAAYGPVAAA VAA ARGSGSNPARPGGFPGANSPGP VADLYGPASQDSGVGN YISAAS PQPGSGFR/HTGIAGPLIATAFT NGYH
11398	41766	A	11466	226	486	
11399	41767	A	11467	2	432	
11400	41768	A	11468	1	834	
11401	41769	A	11469	205	570	
11402	41770	B	11470	61	939	
11403	41771	A	11471	96	269	
11404	41772	A	11472	123	593	VAVLEARLLSPVRASKMTKKR RNNGRAKKGRG\HVQPIRCTNC ARCVPKDKA\IKKFVIRNIVEAA A\VRDISEASV\DA YVLPKL\YV KLHYCVSCAIHSNVVMESISVK ARKD\RTPPPRFRPGGCWPHVP PPKPNVRELEFFKDLKDRLISS WEEK
11405	41773	A	11473	1	228	
11406	41774	C	11474	187	423	
11407	41775	A	11475	1	546	
11408	41776	A	11476	1	1254	
11409	41777	A	11477	1	1386	

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11410	41778	A	11478	1	1445	HLKAKMGKEKTHINIVVIGHVD SGKSTTTGHLIYKCGGIDKRTIE KFEKEAAEMGKGSFKYAWVL DKLKAERERGITIDISLWKFETS KYYVTIIDAPGHRDFIKNMITGT SQADCAVLIVAAGVGEFEAGIS KNGQTREHALLAYTLGVKQLI VGVNKMDSPEPPYSQKRYEEIV KEVSTYIKKIGYNPDTVAFVPIS GWNGDNMLEPSANMPWFKGW KVTRKDGNASGTTLLEALDCIL PPTRPTDKPL\ALPLQGVH\KLG GIGTVSSAPMET\GFSNPGMVV TFAPSPR*QRKVKSVE\MH\HEA L\NEALSGEQCGLSMSKKVSVK ECFVRGN\VAG*PAKNDPTQWE ASWLSLLQVIILEPSQAQISAGL CPLYWDC\HTGSHLHAKFAELK EKIDRR\SGKKV\EDGPKIL/RSL GDAAIVDMV\PG\RPMCYESFS DYPPLGRFAVRDMRQTVAVGV IKAVDKKAAGAGKV\TKSAQK
11411	41779	A	11479	1	996	

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11412	41780	A	11480	1	1875	MPSDLAKKKAAKKKEAAKAR QRPRKGHEENGDVVTEPQVAE KNEANGRETTEVDLLTKELEDF EMKKAARAVTGVLASHPNST DVHIINLSLTFHGQELLSDTKLE LNSGRRYGLIGLNGIGKSMLLS AIGKREVPPIEHIDIYHLTREMP PSDKTPLHCVMEVDTERAMLE KEAERLAHEDAECLEKLMELYE RLEELDADKAEMRASRILHGLG FTPAMQRKKLKDFFSGGWRMR VALARALFIRPFMLLLDEPTNH LDLDACVWLEELKTFKRILVL VSHSQDFLNGVCTNIIHMHNNK LKYYTGNYDQYVKTRLELEN QMKRFHWEQDQIAHMKNYIAR FGHGSAKLARQAQSKEKTLQK MMASGLTERVSDKTLSEFYFPP CGKIPPPVIMVQNVSEFKYTKDG PCIYNNLEFGIDLDTRVALVGP NGAGKSTLLKLLTGELLPTDG MIRKHSVVKIGRYHQHLQEQL DLDSLPLEYMMKCYPEIKEKEE MRKIIGRYGLTGKQQVSPIRNL SDGQKCRVCLAWLAWQNPHM LFLDEPTNHLDIETIDALADAIN EFEGGMMMLVSHDFRLIQQVAQ EIWVCEKQTITKWPQ\DIL\AYK EHLKSKLVDDEEPQLTKELPTTC
11413	41781	A	11481	194	418	YGLASVSPTQISSSSCNPWMFE GGTLVGGDWIGSHDSEGLVTR SGCLISVWHFSCAVSPATL*RRCL LLLLRLPP
11414	41782	A	11482	1	675	
11415	41783	A	11483	1	1125	
11416	41784	A	11484	1	711	
11417	41785	A	11485	673	796	
11418	41786	A	11486	3	570	RLQEFGTRNRHLPVNSPKLTNT KGKRRGTR\YMF\SRPFRKHGV VPLATYMRIYKKGDIVDIKGM GTVQKGMPHKCYHGKTGRVY N\VTQHA\VMGIVVYKQA*GQR FLPKRI*CCVIEH\KHS\KSRDSF \LK\RVKENDQKKKEAKE\KGT W\WQL\NRQLAPPREAHFVRT\N G\KEPGACWNPIPYEFHGHN
11419	41787	A	11487	1	2091	
11420	41788	A	11488	1	2208	
11421	41789	A	11489	430	1032	

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11422	41790	A	11490	3	1158	EDQIDRLDFIRNQMNLLTLDVK KKIKEVTEEVANKVSCAMTDEI CRLSVLVDEFCEFHNPDPVLKI YKSELNKHIEDGMGRNLADRC TDEVNALVLQTQQEIIENLKPLL PAGIQDKLHTLIPCKKFDLSYNL NYHKLCSDFQEDIVFRFSLGWS SLVHRFLGPRNAQRVLLGLSEPI FQLPRSLASTPTAPTTPATPDNA SQEELMITLVTGLASVTSRTISM GIIIVGGVIWKTIGWKLLSVSLT MYGALYLYERLSWTTHAKERA FKQQFVNYATEKLRMIVSSTSA NCSHQVKQQIATTFARLCQQV DITQKQLEEEIARLPKEIDQLEKI QNNSKLLRNKAVQLENELENF TKQFLPSSNEGSVTIEIALVTLIG GNRNL
11423	41791	A	11491	132	381	SKAESVFPPTLPRQRPAAAAGP HWGAG*GQDEAGLHPGPEDRG FLRETPADPGLQAGLGQVHPPR SRADPPAPYQVPPRMGT
11424	41792	B	11492	129	470	

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11425	41793	A	11493	1	1955	FVSCQAPWSPHPAQLSPVGADA MTLTLSVLICLGLSVGPRTCVO AGTLPKPTLWAEPASVIARGKP VTLWCQGPLETEEYRLDKEGLP WARKRQNPLEPGAKAKFHIPST VYDSAGRYRCYYETPAGWSEP SDPLELVATGFYAEPTLLALPSP VVASGGNVTLQCDTLDGLLTF VLVEEEQKLPRTLYSQKLPKGP SQALFPVGPVTPSCRWRFRCCYY YYRKNPQVWSNPDLLEILVPG VSRKPSLLIPQGSVVARGGSLTL QCRSDVGVDIFVLYKEGEHDL VQSGSQQPQAGLSQANFTLGP VSRSHGGQYRCYGAHNLSRW SAPSDPLDILIAGLIPDIPALSVQ PGPKVASGENVTLLCQSWHQID TFFLTKEGAAHPPLCLKSKYQS YRHQAEFSMSPVTSAGGGTYR CYSAIRSYPYLLSSPSYPQELVV SGPSGDPSLSPTGSTPTPGPEDQ PLTPTGLDPQSGLGRLGVVTG VSVAFVLLLFLLLFLLLRHRHQ SKHRTSAHFYRPAGAAGPEPKD QGLQKRASPVADIQEEILNAAV KDTQPKDGVEMDARAAASEAP \QDVTYAQLHSLTLRREATEPPP S\QEREPPAEPISIYAPLAIHLAHG GPRSHTQQKETQRLQKARELPP VDTNEPQPAWDP

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11426	41794	A	11494	22	1991	GLIPLQSAGSPEGDAMTPALTA LLCLGLSLGPRTRVQAGPFPKP TLWAEPGSVISWGSPTIWCQG SLEAQEYQLDKEGSPEPLDRNN PLEPKNKARFSIPSMTQHHAGR YRCHYYSSAGWSEPSDPLELV MTGAYSKPTLSALPSPVVASGG NMTLRCSQKRYHHFVLMKEG EHQLPRTLDSQQHLHSGGFQALF PVGPNPSHRWRFTCYYYMN TPRVWSHPSDPLEILPSGVS RKP SLLTLQGPVLAPGQSLTLQCGS DVG YDRFVLYKEGERDFLQRP GQQPQAGLSQANFTLGPVSPSN GGQYRCYGAHNLSSEWSAPSD PLNILMACQIYDTVLSLSAQPGP TVASGENVTLLCQSWWQFDTF LLTKEGAHPPLRLRSMYGAH KYQAEFPMSPVTSAHAGTYRC YGSRSSNPYLLSHPSEPLELVVS GHSGGSSLPTGPPSTPGLGRYL EVLIGVSAFVLLLFLLLFLLLR RQRHSHKRTSGLRLCPSSPRPE K\ADFQRPAGAAETEPKDRGLL RRSSPAADVQEENLYAAVKDT QSEDGVEIYTRQSPHDEDPQAV TYAEVKHSRPRREMASPPSPLS GEFLDTKDRQAEEDRQMDTEA AASEAPQDVTYAQLHSLTLRRE ATEPPPSQEGPSPAVPSIYATLAI
11427	41795	A	11495	1	1818	
11428	41796	A	11496	3	574	IRCSSVDPRVRPRVRGASGAAA YCCRHVSIPRDHTTHNQSRKW HRNGIKKPRSQRYESLKGVDPK FLRNMRFKKHNTKGLKKMQ ANN\AKAMSARAEAIKALVKP KEVKPKIPKGGQPINLIRLAYIA HP\KLGKRARARI\AKGLKLCRP K\AKAKAKAKAKDQTKAQAA APASVPAQAPKRTQAPT KASE
11429	41797	B	11497	45	331	
11430	41798	A	11498	1	1779	
11431	41799	A	11499	1	837	

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11432	41800	A	11500	3	557	ERGYSFTTTAERDIVRDIKEKLC YVA\LDFEQEMATAASSSSLEES YE\LPDGQVITIGNE\RFRCPEAL FQPSFLGMESCGIHETTF\NSIM K\CDVDIRKDLYANTVLSGGTT M\YPGFADRMQKEITALAPSTM KIKIIAPPERKYSVWIGGSIL\AS LSTF\QQMWISKQEYD\ESGPSI\ VHRKCF
11433	41801	A	11501	1	1188	
11434	41802	A	11502	1	684	
11435	41803	A	11503	1	1398	
11436	41804	A	11504	22	1239	
11437	41805	A	11505	837	971	
11438	41806	C	11506	1	3018	
11439	41807	A	11507	23	368	
11440	41808	A	11508	1	816	
11441	41809	A	11509	1	441	
11442	41810	A	11510	195	293	IKVSPSGRDPVRDN*ITW*FLPY CSSTTGS LH
11443	41811	A	11511	56	372	MELPASPALFARTPQPLGGRW DWAPWSRGWRSSRLGPHRSP RRGSEAQAWRAAGPEPCPAGR QLRPVNIEWLFALILTHFTGTFQ VLA*TSQALI*NPRVLYPD
11444	41812	B	11512	108	326	
11445	41813	A	11513	3	326	GSKKKFH*HSRILERSRSWRTS YQGRPQEPSWLHPVDPHRGCR WSCLPVPCRAPSTPQPLGGRWD WAPWSRGRRLSGRLGPHRSPR NRGRLRHGGLQVPSRASQEGS
11446	41814	A	11514	3	619	VRDIHGSPTHHRPGGLRGKNGF VGEARDPRYRSGHCFRECRTO ALVAFT*C*SCGFTEVKN*GLSC LPAGQGS GPAARHV*ASHPLHG LPCGPSLP/NRAPPTPRRPVPST TQGLRNASARRGTGRQLHLQP WCGIH*VKPAGLLSLLHGQAC GDPATPSRERLSQPAVPTALGS RRRLLLPAGSPGSSLPPSRQPP GRRRPP
11447	41815	B	11515	1	1524	
11448	41816	A	11516	1	1365	
11449	41817	B	11517	1	654	
11450	41818	B	11518	1	795	



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11451	41819	A	11519	486	929	QKQEESWPEDTYPRALAAFP GRARDLQPAMPEPPTLSMGSC APEPPRGAPPPAPRRRIPSTTQG LRSSGAGRRTCRQLHLQPRCRI HWVKPAGLLSLWLFQMHSASC WWNYHSGAWRMVALFSWLH* ECPSGESGAPILHFPFALP
11452	41820	A	11520	35	473	VLQLLRHHVWSCSFPPGVVSL ALAVKLQTFVTQEPSWLHPVD PAPGLQVELPASPLQCTRSTSQPL GGRWDWAPWSRGRSSGRLGP HRSPWRG*EAQAWRAAGPEP/ WPRGKA/C*GPARNRAKRRFPH CTF*EEVTVCSPQKRGGD
11453	41821	A	11521	23	229	RSWNPQTLFVGMYNATAAWK PI*QFLKKLNMKLP*DPGREPLN QTG*KGKRGGQEAFLKGISSR MSQ
11454	41822	B	11522	152	901	
11455	41823	A	11523	1	3063	
11456	41824	A	11524	242	263	VLQLIKAVWTQRTQEPSWLHP VDPALGLQVELPASPACTP QPLGPLLPLWRHLRSPSVH HCTVGAPFWAGQGRSPLPQR CALFLAGP
11457	41825	A	11525	1584	2082	QRAGSPHSPRSLVPPLPGLPLW RHLRSPSAHRCTMGAPFWAGQ GHSRLPQLAGRRGGRGASGNR CCVQRLQASWSSRWAWAWRA PHSEQPAGPAGPGQ*GTWHPG QRLQRMYWVLQQCRLTGAVL DFSPGLSCLPAGQGSGPAARHA *AFHPLHGLLCGRSLPD
11458	41826	A	11526	1293	1558	CIQHCHHCCYRCRASAAGAA SLQGSTHVRIQH\CTP\CPVLLTP SVRLRDVCTRSIWPLVVTGLPS AMNVSSWCSTSSPAFGVLVLWI
11459	41827	B	11527	179	1031	
11460	41828	A	11529	1	342	
11461	41829	A	11530	1	3081	
11462	41830	A	11531	1	371	
11463	41831	A	11532	1	501	
11464	41832	A	11533	1	836	
11465	41833	A	11534	88	573	
11466	41834	A	11535	1	675	
11467	41835	A	11536	1239	1556	FLSLPTFLFVIFSGEEELLVLALV FLSLFFFFFFLRWSFAVVAQAV\ VQWHNLSSLPGFKQFSCSLP SSWDYRCPPRPANFCIFTRDG VSPCCPGWSRTSDLR

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11468	41836	A	11537	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPEKALRDA KLDKSQIHDIIVLVGGSTRIPKIQ KLLQDFYEAVAYGA AVQAAIL SGDKSENVQDLLSLDVT\PPF LGIETAGGVMTVPH
11469	41837	A	11538	2	295	NRMGNHFIAEFKRKHKKDIEN KRAVRRLRTACERAKRTL/SSST QASIEIDSLYEGIDFYTSITRAPF EELNAWGISWWWLPPPVGAS SGPTIEEVD
11470	41838	A	11539	1	1659	
11471	41839	A	11540	1	810	AGKPHCGGEFCTPNVHHFFR*F *ANPKRTII/ENKEALTPPTV/C* RAKPTLSSAPRAVI/EIDSS*E/GI GLYTSITPPRFEELNADLFLAPL TPVEKALRNA\KLDKSQIHDIIVL VGGSTRIPKIQSFLQDFNGKE LNKSINPDEAVAYGA AVQAAIL SGDKSENVQDLLLDVTPSLG IETAGGVMTVLIKRNTTIPTKQT QTFTTYSN\NQPGVLIQVYEGER AMTKDNNLLGKFELTGMPGG MPGGFPGGGAPPSCGASSGPTI EEVD
11472	41840	B	11541	848	2399	
11473	41841	A	11542	1	876	
11474	41842	A	11543	16	1203	SIPHEPWPVSLLLFQEQVPGKK ELRKGLALLEAIISICGSLDKVL KEKRKLFHISMGEETINGLLDE LLQTRVLNQEEMEKVKRENAT VMDKTRALIDSVIPKGAQACQI CITYICEEDSYLAETLGLSADQT SGNYLNMQDSQGVLSFPAPQ AVQDNPAMPTSSGSEGNVKLC SLEEAQRIWEQKSAEIYPIMDK SS\RTRVALIICNEEFDSIPRRTG AEVDITGMTMLLQNLGYSVDV KKNLTASDMTTELEAFAHRPE HKTS DSTFLVFM SHGIREGICG KKHSEQVPDILQLNAIFNMLNT KNCPSLKDKPKVIIIQACRGDSP GVVWFKDSVGVSGNLSLPTTE EFEDDAIKKAHIEKDFIAFCSST PDNVSWRHPTMGSVFIGRLIEH
11475	41843	A	11544	2	654	
11476	41844	A	11545	3	291	LIPPLLRPLVQSGGIPMGKFMK PGKVVLVLAGRYSGRKAVIVR YSVDIPLDKTVVNKDVFRDPAL KRKARREAKVKFEERYKTGKN KWFFQKLRF

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11477	41845	A	11546	157	386	
11478	41846	A	11547	2	531	FWQESASGHLWLSGFLSGPFSL LSAEMGKFMKPGKVVLVLAGR YSGRKAVIVKNIDGTS DRPYS HALVAGIDRYPRKVTAAMGKK KIAKRSKI KSFVKVYNYNHLMP TRYSVDIPLDKTVVNKDGFTD PALKR NARMEA\KV KFEERYK TGKNK WFF\QKL RVLD AFVLI KNYKE
11479	41847	A	11548	1	414	LGGLKGTWGETKPAMAAAE DGGPEGPNRERGGAGATKTL YTGNHLFSPQWLETRPERQEC VCKAGISREKVVGEKSLTFS HFLRLKTPQICRLPV*LFLPP* GFQPF GDTGGFHF SFGVGA FPFGF FNSPSY
11480	41848	A	11549	1	654	
11481	41849	A	11550	3	663	RGQEVVSGLLGRVYVYLGGLK GTWGETKPAMASAE E\SGAPN V PNRERGGAGRPKTPFECNICL ETAREAVVSVCGLHLCWPCLH QWLETR\PERQECPVCKAGISR EKVVP LYGRGS\QRSPQDPRIK NSPRPPGGRGPAPE\SRGGSQ PFGDTGGFHF\SFGVGA FPFGF FTTVF\NAHEP FRRTGVDLG\QGH PSLQLGKEFPLPGFSAIFFLFWL
11482	41850	A	11551	3	369	
11483	41851	A	11552	375	851	
11484	41852	A	11553	1	927	
11485	41853	A	11554	104	845	

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11486	41854	A	11555	200	1496	ETIQAVVFMSLHFLYYCSEPTL DVKIAFCQGFQDKQVDVSYIAKH YNMSKSKVDNQFYSEVVDST FTVLKRYQNLKPIGSGAQGIVC AAYDAVLDRNVAIKKLSRPFQ NQTHAKRAYRELVLKMCVNH KNIISLLNVFTPQKTLEEFQDVY LVMELMDANLCQVIQMELDHE RMSYLLYQMLCGIKHLHSAGII HRDLKPSNIVVKSDDLKILDF GLARTAGTSFMMTPYVTRY RAPEVILGMGYKENVDIWSVG CIMGEMVRHKILFPGRDYIDQW NKVIEQLGTPCFEPMKKLQPTV RNYVENRPKYAGLTFPKLFPDS LFPADSEHNKLLKASQARDLLSK MLVIDPAKRISVDDALQHPYIN VWYDPAEVEAPPPQIYDKQLD EREHTIEEWKELIYKEVMDSEE KT*KWC*LKGQSP\SAQVQQ
11487	41855	B	11556	56	1564	
11488	41856	A	11557	1	970	
11489	41857	A	11558	1	903	
11490	41858	A	11559	237	479	PVGTNTECEIPFQPMETGHSSR VDASGYK*PCLLCVYSRGKTA GECTLF*VHHFLSSLCPVNLGA NNQLHYIPWFSTDG
11491	41859	A	11560	1	477	
11492	41860	A	11561	125	1133	
11493	41861	A	11562	1	837	
11494	41862	A	11563	2	708	CQHYKFRYHQQGEGQEEPPLN PHGAARAEVYLRKCTFDMFNF LASQHRVLPEGATCDEEEDEVQ LRSTRATSLELPMAMRFRHLK KTSKEAVGVYRSAIHGRGLFCK RNIDAGEMVIEYSGIVIRSVLTD MRKKFYDGKGIG\CYMFMSDD FDVVDATMHGNAARFINHSCE PNCFSGVIPGGGPENKIVIFGLR RILGGEEVNLRTKKFPIEADAK\N KLPC\NCGAKRCRRFLN
11495	41863	A	11564	2	136	
11496	41864	A	11565	1	551	AIFYAKRASVFVKLQKPNAAIR DCDRAIEINPDSAQPYKWRGKA H/RAQKIAEHRKRYERKREEREI KERIERVKKAREEHERAQREEE ARRQSGAQYGSFPGGFPGGMP GNFPGGIPGMGGGMPGMAGM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQN PANMSKYQSNPK VMNLISKLSAKK

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11497	41865	A	11566	1	804	
11498	41866	A	11567	64	1215	PPSFAHHLPTMDPRKVNELRAF VKMCKQDPSVLYTEEMRFLRE WVESIGGKVPPATQKAISEENT KEEKPDSSKVEEDLKADEPSSE ESDLEIDKEGVIEPDTDAPQEM GDENAEITEEMMDQANDKKVA AIEALNDGELQKAIDLFTDAIKL NPRLAILYAKRASVFVKLQKPN AAIRDCDRAIEINPDSAQPYKW RGKAHRLALGHWEAAHDLAL ACKLDYDEDASAMLKEVQPR QKIAEHRRKYERKREEREIKERI ERVKKAREEHERAQR\EEARR QSG\AQYGSF\PGGFLGG\MPGN FP\GG\MPGMGGG\MPGMG\GM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQNPA\NMSKYQSNP K\VMNLISKLSAKFGGQA
11499	41867	A	11568	1	265	VKAKIQDKEGIPPDQQRILIFAG KQLEDGRTLSDYNIQKESTLHL VLRRLRGGIIEPSLRQLAQKYN DKMICR/KKCGHTNNLRPKKK
11500	41868	A	11569	3	318	
11501	41869	A	11570	7	57	RFFNFLGGIP/P*SGPKGMTL/DQ TQGSKSKQIWPALTFKPLVER NIPSSVTAVEFLVDKQLDFLTE DSAFQPYQVRNFRLLFKIKG*L NFIDIQTFFKQYSLNISSNF*LC EKPNECSQLILLIG*TVY*FFNFL GGIPLNLGQKE
11502	41870	A	11571	1	2109	
11503	41871	A	11572	50	251	
11504	41872	A	11573	1	1922	
11505	41873	A	11574	2	479	
11506	41874	A	11575	1	909	LILTSVLLFQRHGYCTLGEAFN RLDFSSAIQDIRTFNYVVKLLQL IAKSQTLTSLSGVAQKNYFNILD KIVQKVLDHHPRLIKDLLQD LSSTLCILIRGVGKSVLVGNINI WICRLETILAWQQQLQDLQMT KQVNNGLTSLDLPLHMLTNILY RFSDGWDIITLGQVTP\TLYML SEDRQLWKKLCQYHFAEKQFC RHLILSEKGHIEWEVCNFATF RKHYPKEQYGRQHCIFCRHCS ILFWKDSGHP\CTAADPDSCFTP \VSSQQFIALFQVLRAAPCHPY WRFVNPAVCAGLIVSVL
11507	41875	A	11576	1	1035	

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11508	41876	A	11577	63	606	FAKNERTQRGKRRG\TRYMF SR PF\RK\HG VVPLGPHICRIYRK G DIVDTQGN GVLFFKKGMPHKCY PWPKLEGVLQLLPQHA\VAIVV NQPVLGQSFFPRE*IVRIEH\KH SKSPR*ASLK/RVLKENDSEKER SPNEKGTWGSNLKRHLAPPQK KHTL*RTNGKEPEL\LEPIPYEFH GHNRC
11509	41877	A	11578	1	490	
11510	41878	A	11579	150	536	NCKISFLHFCYIFVKALKKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQLKR/QGKNLVYISLVLRA L*G*DLTHIIILFPFFFL**PAPP REAHFVRTNGKEPELL
11511	41879	A	11580	336	476	GMGTVQKGMPHKCYHGKTGR VYNVTQHAGVIVVNKQVK*VV LCG
11512	41880	A	11581	1	626	WAFRPEPPSSSKFAQNDGPQRG KRRGT\RYMF\SRPF*ENHG VVP LAHIFMRIYK\KGDIVRHPRGM GYCSKKGMPPTSCYPWQKLGR V\YNVTPAMLFGIVCKQTKLKG NDSLPRG/ILMWRI*AHLRHF*G ARD/RASLKTCGRENGSRKKER KPKGKGV TWGFQLKRRHLGFP PQEEATFLLKEPIGGREP*ACLE PYFPYWISWGINRC
11513	41881	A	11582	499	723	
11514	41882	A	11583	96	411	PAPTSRCRRRRAPLPKKKAEGD AKGNKAKVKDEPQRRSARLSA KPAPPKPEPKPKKAPAKKGEKV PKGKKGKAD\AGKEGE*PLQKN GDAKTDQAQKA\EGA\GDAK
11515	41883	A	11584	3	493	
11516	41884	A	11585	588	759	GEGCGWAEVGRCPGPPDPAG PAGAAGP\GAARGGLFRGVLSP SSRCGGGSSSSRSR
11517	41885	A	11586	213	626	
11518	41886	A	11587	1	645	
11519	41887	A	11588	1	739	
11520	41888	A	11589	327	676	NPNPSWNLAHVWDMDRK*EQ RGIQ/V**SNINKS*KEKMSMQC LEMPRNPDH*GRIDVSFQNLMR LTR*SQMGYLPWDLKQLETFS KLS*KQVMLS VVVTFVRNMLQ LRFLTSFSG
11521	41889	A	11590	11	328	

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11522	41890	A	11591	1	378	LFIVTVCPAFLRFSSAICDSFLIC PQVGGCVRRVLLVTGVLLSIS LDMAATGVSLGSSWSLFLGIW LMIRFQVS*WYPNWLLILSWRN ISITSTPSYYFTYFPTFCYQISPPN QLFCFCLCSWFL
11523	41891	A	11592	1	780	
11524	41892	A	11593	1	1461	MVTLMGHAALCLHYVMQLGT TGGAWYFPRASSQAREMPQCP TLESQEGENSEEKGDSSKEDPK ETVALAFVRENPGAQNGLQNA QQQGKKKRKKKRRIISGKVLED FLALAMHFADEETGQKRCSLN QTIQLLITPDTGSIWHQAFLLSIV RRAAQQYGFREGGEDDDWTL YWTDYSVSLERVMEMKSYQKI NHFGMSEICRKDLLARNMSR MLKMFPKDFRFFPRTWCLPADP AQLDLWSQTFWPRPRTAPDGT GADGLGLRLGSLGK/VSFWFPA CHGLG*PEASYTAS/MACGSLP/ WKLSTFSAYLEDHSYNVEQIW RDIEDVIIKTLISAHPIIRHNYHT CFPNHTLNSACFEILGFDILLDH KLKPWLLETEKMQTAGALFISP ALPSYSNFPLQVARREFQTSVV SRDIDTAAKFIGAGAATVGVAG SRAGIGTVFGSLIIGYARNPSLK QQLFSYAILGFALSEAMGLFCL MVAFLILFAM
11525	41893	A	11594	1	2301	
11526	41894	A	11595	3	381	
11527	41895	A	11596	1	729	
11528	41896	A	11597	1	1006	MVKVKARVNEFGYTGCLVTRA AFNSGKVDIVAINDPFIDLNYLA YMLQYDSTHGKFHGTIKAENG KLVINGNPITIFQE*DPTKIKWG DAGTEYVVESTSIFTAMEKVGA HLQRGAKRVMIFAPSTEAIMFM MKVNYEKYDNSLKIISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTVDGPCRKLRPD GHRALQNIIPASTSTAKAMVKV IPELNKLTGMASHVPTAKVLV VDPTCHL/EKPAKYDDIKKMM KQASEDPIKGILGYTEHQIVSSD FNSDTQSSTFDAGAGITLNDHF VKLISWYDNEFGYSNRVVDLM AHMASKE
11529	41897	A	11598	3	508	
11530	41898	B	11599	1	5068	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11531	41899	A	11600	58	659	PVATTCECIFIHLEADVWIGN AA/WELYYLEQSIQHDSMPSPD KTTG*GDN*FYASS\GAGKFVS RAVFINLEPIVTDEVCTGTYHQ LFHPEQLITDKEDAAHNYAWG HHDIGKIIGCYSTNKTCTIQFV DWCFTSLKVGINCQLPTVVPA NLANIKRAACML\SENTIAIAEAW VCLGHKSDLSYANCSFVHQFFN KSIH
11532	41900	A	11601	511	1173	
11533	41901	A	11602	3	497	WCDGPQNRALICQQC/YSHNG MALKEEFYIAFRCAFCFLNP ARKTRPQAPRLPEFSFEKRQVV EGSSSVGVLPSGVLSSDNQFNE ESLEHDVLDNDTEQTDDKIPAT EQTNOVIEKASDSEEPPEEKQET ENEEASVIETNSTVPGADSIPDP ELSGESLTAE
11534	41902	A	11603	2	764	
11535	41903	A	11604	1	444	
11536	41904	B	11605	44	1748	
11537	41905	B	11606	1	1134	
11538	41906	A	11607	1	549	
11539	41907	A	11608	212	548	
11540	41908	A	11609	1	905	ESVAAAAARAFPTAPKELERQQ RRRFRFHHLFLFPSLRTPCRVSV SLQPWLWKATEVMAMFEQMR ANVGKLLKGIDRYNPENLATLE R\YVETQ\AKENAYDLEPNLAV LKLYQFNPAFFQTTVTAQILLK ALTNLPHDTFTLCKCMIDQATI QERNGPIDQIFVPSGTLLEDPA HFPGPFWQTPGNRACQKAWD ENHWTLFGKVL\GF*RLLVRK FIC\HVVGYHLP SHIDR\WLLAE MLGDL\SDKPAKRCWMSKIRLR EDDRRGQIF\CS\QE*EHLNPRN\ IVEKIDFDSVSSIMASSQ
11541	41909	A	11610	186	209	QLWPN*LLSRNKEATLRYSQLP TCHSICY*MPAF*HTISDL SFNK NINCKSYHLRVFYKYV*IVCHF *VPKVYWT KYQTSCRT*WR* SGVE*PPISSSSSACLLRRLPT EGTCPEIFWNPRLGISAECRDSC GPTSF
11542	41910	A	11611	2	2948	
11543	41911	B	11612	1	999	
11544	41912	A	11613	1	657	
11545	41913	A	11614	1	707	
11546	41914	A	11615	1	297	



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11547	41915	A	11616	1	1287	
11548	41916	A	11617	242	540	LTNEKKVQDQMDSQPNSTRGT RRSLYPFLLLKFQIEKEGILPNS FYEASIIIPKPGRDTTTTKKEF* TNIPDEHRCKNPQ*NTSKPNPA AHPKAYPP
11549	41917	A	11618	193	916	
11550	41918	A	11619	1	2169	
11551	41919	A	11620	1	615	
11552	41920	A	11621	39	568	NSAWARRPLVLPMSLVSPWK SSQHIFRVLNPPNLDGRRKNSP LPITCHLRVWARRYAHVVLRK AD\DLTK\RAGEL\TEDEVERVI TILQ\NPRQYKIPD\WFLNRQKD VKDGKYSQVLANGLDNKLRED L\ERLKEDSAPIEGLRH\FWGLR\ VRGQHTQDQLGRRGRHRGASA GARR
11553	41921	A	11622	1	378	
11554	41922	A	11623	1	222	
11555	41923	A	11624	2	367	
11556	41924	A	11625	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTTRPALQELLKEALNME RNNQYQPLQKHAKW
11557	41925	A	11626	1	633	
11558	41926	A	11627	164	714	IGVNRHLIQESPSWNLGAPLE QIFORKEQAAIFAILQPLLVISRQ TGSGVDPQQTADLQK/SGSDS REQNKTENEFDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
11559	41927	A	11628	504	936	TESSSININKKDDHAKTPPKDH NSSPAREQNKTENEFDELTEIGC RRWVITNSSELKEHVVTQCKEA KNLEKMLQELLTRITSLEKNIN DLMELKNTAQELREAYTIINSQ TDQAEERISEIEDQLNEIKGEDN IREKTVKRIE

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11560	41928	A	11629	1949	3232	PGKQDLEWTSSKLQQTERRGT LLVEGKLTNRKE*HQHQKLR PHGNLIQRDHNCSPAREIQNWM ENEFDKLTEVGFRRTITNSSK LKERVLTQCKEATNLAKRLEK LLTRITSLEKNKNDLMELKNTA QELREAYTSISGRINQAEQRTSE IEDQLNEIKRRGVSVCPQPS EDT PRSTARVPKGMVPFRPRVPLVT PPREKKEAPWLACLRTRALRILI DPPSQVWDIVSCDAENETKLEN TLQDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIVRFT KVEMKEK\MLRAAREK\GQVT HKAKPIRLTADLSAENLQAR/R TEWGPINFILKEKNF\QPRISYPA K\LSFISEGEIKYFTDKQMLRDF\ VTTRPALK\ELLKEALN\MERD NRYQPLQNHAKFVKTEAREE TCINLMCQITS
11561	41929	A	11630	1	421	
11562	41930	A	11631	2	415	
11563	41931	A	11632	59	492	GHIGVRPSLHPVTSTTSGNVSP LARAMASISELACVYLALILHD DEVIIMEVNINTLIKAASVNVE/ PFWPGLFGKALANVNIGSLICN VGAGGPALAAGAAPAGGPAPSI AAASAEKKMEAKKEESEESD DDMGFGLFTKPVL
11564	41932	A	11633	100	527	PPRTGQRQPLHSARRHGSPVSSE LACIYSA LISARTDEVTVTEDK INALIKSSPL*MLSPFWPWLCLQ RPL\NVNIGSL\ICNVRGPEPA ASQPGA\GPARKVLAPSTAAAP S*RRRKLEAKKRKNPKEVLNDE HGLLVFLN
11565	41933	A	11634	1	675	
11566	41934	A	11635	1	1032	

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11567	41935	A	11636	3	976	HEAKHQMADDAGGS/AGGPEG PGGPWDGKTPLLSGEVFGIVIR GRGSRP/RGRGRGR\GRGARGG KGPRIK/WIGMPVHQVGAALVK DH*RSKFPWKEIYLFSLP\IKGIK DS*FSFLAGPLSKDEGFEGLCPV QKQTRAGQAQQVSRPFVAIGG LQMAHVGSGVLSAPKEVATG HPVGAILAKLSIRPRAQKGIWG TKYWQSPNTVP\CKV\TGRCGF VVVRLIP\APRGSGIVSAPVA\K KLLMMAGIDDCYT\SAPGCTAT LG\NFAKGHPLIAIFK\TYKLP*P PDLWK\ETVFTK\VPYQ\EFTDH LVKDHPPESSVQRDLRLQLVAT
11568	41936	C	11637	279	322	
11569	41937	A	11638	1	107	
11570	41938	C	11639	69	134	
11571	41939	B	11640	223	950	
11572	41940	B	11641	1	684	
11573	41941	A	11642	1	564	EFGTRDNRVLLPLVNPTVFFDI AVD/GVYPLGRVSFELFADKVP KTAENFRALSTGEKGFG\YKGS\ CFHRLFP\GFMCQGW*L*SHHN GT\GGKSHLWGRNLKDENFIL KHTGPGILSMANAG\PTNGSP VFLTSTAKTEWLDGKHAGL GKVKEGMNIVEAMER\FGSRN GKTSKKIISIA\DCGTTSN
11574	41942	A	11643	1	877	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQAAFREPRLLVVTDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHSVGLMW WMLAREVLRMRGTISRGPWE VMPDLYFYRDPEEIEKEEQAAA EKAVTKEEFQGEWTAPAPEFTA TQPEVADLSEGVQVPSVPIQQF PTDDWSTQPATENWSAAPTAQ ATEWVGATTDWS
11575	41943	A	11644	1	1674	

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11576	41944	A	11645	1	1121	MLEAVLEESPREEA AFSWVMK GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQMKEEDVL KFLAA\GTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWEKLL LAA\RAIVA IENPADVSVISSRN TGPEGLCLKFAA\ATGATPIAG\ RFTP G\TFT\NQIQ\AAFREATGF LVVTWTPGLD\HQPLTEA\SYV YLPTIALCNTDS\PLARYVDIAIP CNNKGAHSVGLMW\WML\ARE VLRMRGVTISREHPWEVMPDL YFYRDPEEIEKEEQAAAEKAVT KEEFQGEWTAPAPEFTATQPEV ADWSEGVQVPSVPIQQFPTED WSAQPATEDWSAAPT AQATE WVGATT DWS
11577	41945	A	11648	1	396	
11578	41946	A	11649	1	567	
11579	41947	A	11650	1	226	
11580	41948	A	11651	3	377	
11581	41949	A	11652	19	450	PDRRWSSLDTMNHTGQTFFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPTSTVIHIRSETSVPD HVWVSLFNTLFMNPCCLGFI AF AYSVKSRDRKMVG DVTGAQA YASTAK\ALNIWALILGILMTIL LIVIPGLIFQAYG
11582	41950	A	11653	210	2206	
11583	41951	A	11654	450	644	SLRLWV TERTAVTNLPSSSRGV GDKPPVGS PHLFLSLVVA FNPL QSTRNPASASQPQ\PCSAEQPAR RG*AEPA LRTVLP IHAEMWLPR LHEFEEHRLVHRCFTLTFVDET DHCAVLPRGAGSGQGGGFERIL SQSPGSLWESC*PGLWLNILSNP PPCPLPAPLGRTAQ
11584	41952	A	11655	66	157	RGTWSHIA*KSQGISWDRFEEVT LCREPFT
11585	41953	A	11656	1	2538	
11586	41954	B	11657	68	1602	
11587	41955	B	11658	1	1464	
11588	41956	A	11659	587	1081	ILSWLT LWSILRLYIVTLTGKIC SLTSEASEATSPPRGTNNSRVA LAVVTLVWRVCSFIFDSKAFIL AFAFFFSHWFSILPFP PQHGATL WYFWGDFECSRGRPRNIHTDDR ARLVPMTERGGPPQGGEPART RSPRQGGRGGM EGGE*YPCPPH LGGQERKPG

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11589	41957	A	11660	180	583	YTEVLKGPDGAENHGTRTT** MHKPH*PIRSTGRKADKQLQQS LR\NKINVQKSQAFLYTNNRQT ESQIMSELPFTIASKRIKYLGIQL TMDVKDLFKENYKPLLKEIRG YKQMGEHSMLMGRKNQYSEN GHTAQ
11590	41958	A	11661	82	159	
11591	41959	A	11662	2	1008	NAAPLQQRNKAGCR/YDLDEL REEGFRRSNFFKLKAEVRTQCK ETKNLEKTLDKWLTRKTSVEK SLNDLMELKTMVQGLRDKCTN FSNGFDQLEERVSVIEEQMNEM KQEKKYREKKDRSMTQKVNK DIQELDSALHQEELIDIYRTVHP KSTEYTFFSAPHRTYFKIDHIVG SKALLSKCKRTEIITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYENLWDTFKAVCR GKFRALNVHKRKQERSKIDTLI SQLKELERQELTHSKASRMQEI TKIRAEQKEKETEKNIQKNQRI QELFLLKDQQN
11592	41960	B	11663	1	1529	
11593	41961	B	11664	111	1350	
11594	41962	C	11665	1	2127	
11595	41963	B	11666	1	1350	
11596	41964	A	11667	1	1506	

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11597	41965	A	11668	1	1855	MIIIVPLYSSLGDRVKSCEKKRE RERERRKKERKKERKKERKKE RKKASSKEREGRKKERKKKL RKKEEKERKKRKKKRREGRKE RKKEKERKEGKKEERKNIPGKR RESTDPLKEMDHRCLLPEMLK GTWWTTPARASGPAVPLLCEF RQWTVDTTSVPESTHMPGQM TQPIAPDSHNMDEAGGHYPK QTNTRPENQILHVFTDKWELNT EYKDPKKRTTDTRAYLRVEAT LAADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRGRMTPHM AGYSSETKLPEERSGSSICGSPIS AVLQPPLLIPRQTGSGVDLQQT PTDLQLRVLMERSSSPATEQSW MENDFDEMREDEGFRSNYSEL KEEVQTYCKEVCRGKFKALNA HKRKQETSKIDTLTSQLKELEK QEETHSKASRRQEITKIRAELEK IETQKTLQKINESRSWFFKINK IHRPLARLIKKKTEKNQINAIKN DKWDITNNLTEIQATIREYYKH LYANKLENLEEMDKFLDTYTL PRL*N/CROSLIAYQQIKVQDQ MDSQSNSTRGTRRSWYHSF
11598	41966	A	11669	2678	2897	PDGAKKHGKRT\RDERTSFSSEF NQLEERVSVIENQMNMKREE KFREKRVKRNEQSLQEIWDM* KDQMRSTS
11599	41967	A	11670	843	2004	NNQCREVLKGV DGAESQGSRT REERRSLRSRCDQLEERVSVIED QMNEMKREGKFREKRIKRNEQ SLQEIW DYVKRPNLRLIGVPES DGENGTKLENTLQDIIQENFPN LTRQANIQIEIQRT PQRYSRR ATPRHIVVRFTKVEMKEKMLR AAREKGRVTHKGKPIRLTADLS AGTLQARREWGPINFILKEKNF PPRISYPAKLSFISEGEIKYFTDK QMLTIVHLKTLDIIMYNIRRPK GGEKKADQEVNSEPRNNIVLET KGDRGPQAPASPGGPPRRVRR SASGSRAGITFHPVHYLTRPF HRFHYQSHGYGVGSVQSAELR HKTNSAARAALRDGGVDCRGR ERGSACQKRSDEAGGLVLSD LPRVMSGSWEVRR
11600	41968	B	11671	1	3221	

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11601	41969	A	11672	82	160	
11602	41970	A	11673	1	551	AAAMADSGTAGGAALAAPAP GPGSGGPGPRVYFQSPGAAGE GPGGADDEGPVRRQGVTVS YDRKELRKRL\NL\EDWIL*QLN GAFYDCQ\EEEEIPELEIDVDELL D\MESD\DARAA\R\VKELLVDC YKPTEAFISGLLDKIRGMQKLS TPPEEVRVPDPGRTPVAPTQQSL PPDLVATAITGGT
11603	41971	A	11674	362	650	
11604	41972	A	11675	1	651	
11605	41973	A	11676	1	3101	
11606	41974	B	11677	1	2838	
11607	41975	A	11678	1326	1980	TSEASRQSERVDSAALSALSLLS RSSKCRPWGTARVARAGGCLT PLLSRRFLETRPFTGPDGLG VTCWCCPPKRRLKSTPRPKFSV CVLGDQQHCDEAKAVDATFEV CLGDQVLSNANGFLSLSAKKY DAFLASESLIKQIPRILGPGLNK AGKFPSLLREEGQAICYSSNTLT *SSLPSSQVLCLAVAVGHVKMT DDELVYNIHLAVNFLVSLLK
11608	41976	A	11679	11	720	EAMSSKVSRTLYEAVREVLH GTQRKRRKFL\ETVELQISLKNY DPQ\KDKRF\SGTVRLKSHSPAL SFSVCVLGD\RQH\CD\EAKA\V DIPPHGPSEAAEKTSTKNKKLV QKSWPKKV*MPFLA\SESSDQA RFPRI\PRAPGLNKAGK\FP\SLLT HNGKHGGPKVDEVKVPQSRFQ MKKVLC\LA\AVGHVKMTD\DE LVFNIHLA\VNFL\VSLLK\KNW QKCSGALYYQEAPMGQSPKRL
11609	41977	A	11680	34	507	
11610	41978	A	11681	407	806	LRVGMLQRSKANGPDDHLLG ASCTCGPSTGSPSRLPSLPQRP QKGLLHQ/RATRMKPGNIAKGL WKRLSKGTVMKLWLLTAVPRL SGLLVCPLVHQLLLAFKFLKRF PIFCLWFRAANRHARFSILFKLS RP
11611	41979	A	11682	1	1551	

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11612	41980	A	11683	1	751	MAGYSSETKLPEERSDSSIRGSR KSTVLQTLILLIPRQTGIKKLTQN RSTTWKLNLLNDYVWHNE MKAIEKMFFETNENKDDTTYQN LWD/YIQSSV*REIYSTKCPQEK AGKIQNDTLTSQLEKEKQEQ THSKASRRQEITKIRAEPKEIQT QKTLQKINESRSLFFKRINKIDR PLARLIKKREKNQIDAIKNEK GISPPIPQNYKLPSENTTNTSMQ IN*KI*KKWINSWHTPSQE*TR KKLNL
11613	41981	A	11684	49	551	VRATYFHHAPANCTEFVPRQL VSRAENLPQATSLPTEKASRAF RVLLIPRQTRSGVDLQQTPTDL QLRVLIVRRKTNKQKGHPHQN PICTSPLRNSNFFELKEEVRTHG KDAKNLEKRLDKWLTRISSVE KSLNDLMELRTMA*ELCDECTS FSS*FNQLEERVSVI
11614	41982	A	11685	1	1566	MNSLLTGQIPESQQIHRDSSAAT WWKKIYRQKMGNDEKSEVRG GLTPHTAGYSSETKLPEKRSGS SICGSPISAVLQPPLLIPRQTGSG VDLQQTPTDLKLRVLTVRRKS NKQKGHPHQKPICTSPLSKTKD RSTRQKVNKDIQDLNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTCSKIDHIVGSKALL/EQM*KN RNYQKLSLRPQCNOLELRIKKL TQNHSTTWKLNLLNDYWM QKRPLKIQCFMLKTLNKLIGID GTYLKIIIRAIYDKPTANIILNGQ KLEAFLKGTGRQGCPLSPLL NVVLEVLARAIRQEKEIKGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLPKLISNFSKVSGYKIN VQKSQTFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLKEIKEDTNKWK NIPCSWVGRINIVKMAILPKVIY RFNAIPIKLPMFTFFTELEKTTLK FIWNQKRACIAKSILSQKNKAG GITLPEFRLYTRLQ
11615	41983	A	11686	1	4962	
11616	41984	B	11687	101	3772	
11617	41985	B	11688	1	1047	
11618	41986	A	11689	21	287	



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11619	41987	A	11690	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERVVSAMEDEINEMKRE EKFREKRVKRNEQSLQEIWDYL KRPNLRLIGVPESDGENGTKLE NTLQDIIQENFPNLARQANIQI EIQRMPQRYSLRRATPRHIIVR TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRE WGPIFNILKEKNFQPRISYPAKL
11620	41988	A	11691	1	1257	
11621	41989	A	11692	1	759	
11622	41990	B	11693	107	511	
11623	41991	A	11694	170	726	LLEGKLTNRKDIHTETPSVCHH HQRPKDIIQENFPNLARQANIQI QEIQRTQPQRYSSRRATPRHIIVR FTK/VEMKEKMLRAAREKGRV THKVKPIRLTADLLAETLQARR EWGLIFNILKEKNFQPRISYPAK LSFISEGEIKYFTDKQMLRDFVT TRPALKELLKETLNVERNRYQ PLQKHAHL
11624	41992	A	11695	1	569	MAGYSSETKLPEERSGSNICCSP ISAVLQPPLLIPRQTGSGVDLW QTPTDLQLRVLTVRRKINKQKG HPHQNPICSTSPSSKTKGQIRAE KEIETQKALQKINESRNWVF EINKIDRPPARLIKKKREKNQIDA IKNDRGDITIDPTEIQTIREYYK HLYANKLENLEERDKFLNTYTL PRLNQEEVESLNRPTGSEIEAII NSLPTKKSPGPDGFTDAFYQRY KEDLVPFLLKLFQSIEKDRILSN SFYEASIFLIPKLGRDITTKEN* QTERTSTPKPHLYITIIEDQRPD QSRTEGNRDTKSPSKNQ*IQEL/ WFLKRSTKLIVATSKTNKEEKRE ESNRCNKK**RGYHHRSHRNT NYHQRIIL*TPLCK*TRKSGRKG* IPQHIHSPKTKPGRS
11625	41993	A	11696	3	1039	
11626	41994	C	11697	1	1251	
11627	41995	A	11698	1	807	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11628	41996	A	11699	1	713	MNSLLTGQIPESQQIHRDSSAAT WWKKIYRQKMGNIEKSEVRG GLTPHTAGYSSETKLPEKRS SICGSPISAVLQPPLLIPRQTGSG VDLQQTPTDLKLRVLTVRRKS NKQKGHPHQKPICTSPLSKTKD RSTRQKVNKDIQDLNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTCSKIDHIVGSKALL/KQM*K NRNYQKLSLRPQCQNQTRTQD*E THSKPLNYMETEQPAPE
11629	41997	A	11700	1	1768	MNLSRHLNEVKGELLWSLEWR DPDGGSIIRMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFPYIPH LFGLQQKKMDLKG VFKSCFKI YCSSKHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHECIVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQKPICMSPS SKTKDFKPTKIKRDKEGHYIMV KGSIQQEELTILNIYAPNTEAPR FIKQVLSDLQRDLDSHIIIMGDF NTPISTLDRSMRQKVNKDIQEL KSALQQADLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHIVGSKAL LSKCKRMEIITNCLSDHSAIKLE LRIKKLTQNRSTTWKLN NVLLN DYVWHNKMKAIEIKMFFETNG NKDTTYQNLWD/YIQRSV*REI YSTKCPQEKAGRI*N*HPNIQL KELEKQEQTHSKVSRREQITKIR AELKEIETQKTLQKINESRSWFF EKFNKIDRRRLARLIKKKREKNQ IDAIKNDKIGISPLIPQKYKLPSE NTINTSTQIN*KI*KKWINSSTHT
11630	41998	A	11701	535	666	KGRNIQLNGLVIGTLSN*LKCL KMFFTMPLGYINGGISSDFFLH
11631	41999	A	11702	20	262	
11632	42000	B	11703	1	1254	
11633	42001	A	11704	1	1032	
11634	42002	A	11705	481	1491	
11635	42003	A	11706	2	717	

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11636	42004	A	11707	348	1976	SRVRPVVHLRRAPMVCQGHTT PPVCGSLAGPGDCVHYSVPAG YSSETKLPEERSGSNICCSPISAV LQPQLLIPRRTGSGVDLQQTPT DLQLRVLTVRRKTNKQKGPH QKPICMSPSSKTKGSNSHITLTL NVNGLNAPIKRHRLANWIKSQ DPSVCCIQETHLTCRDTHRIKIK GWREIYQANGKQKKAGVAILV SDKTDFKPTKIKRDKEGHYMM VKGSIQQEELTTLNIYAPNTGAP RFIKQVLRDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDIQ DLNSALHQVDLIDIYRTLHPKS TEYTFFSALHHIYSKIDHIVGSK ALLSKYKTTEIITNCLSDHSAIK LELRIKLTQNRSTTWKLNLL LNDYWVHNKMKAEINTLFETN ENKDTTYQNLWD/YIQSSV*REI HSTKCPQEKAGKI*N*HPNIQL KELEKQEQTHSKASRRQEITKIR AKLKEIETQKILQKINESRSWFF EKINKIDRPLARPIKKKREKNQI DAIKNAEKGISPLIPQKYKLPSN TINTSMQIN*KI*KKWINSSTHT PSQD*TRKKLNL*INTSMQIN
11637	42005	A	11708	1124	1717	LLEGKLTNRKDIHTKNPSVRHH HQRPKVDKTTKMGKQSRKTG NSKNQSASPPPKERSSSPATEQN WTENDFDELREEGFRRSNYSEL KEEVRTNAKEVKNFEEKLDEW ITRITNAEKSLKDLMEKTTAR ELRDECTSPSSQCNQLEERISAM EDKMNEMKREEKFREKRIKRK E\QSLQEIWVYVVRPNLCLIGVP
11638	42006	A	11709	1	3549	
11639	42007	B	11710	209	403	
11640	42008	A	11711	3	248	
11641	42009	A	11712	61	594	IQPLVSVLDEKPSNGVLVHVMVK LLIKTFLDGIFDDLMENNVLNT DEIHLIGKCLKFVVSNAENLVD DITETAQTAGKIFREHLWNSKK QLSSVHGSEHEDKALTCHWVG HPGFPEKLKERKKFCGIMVVG FGFTTDSGKAGADIHGRFLQGN FCNDAVTKAHVEKDFNIAFKSST

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11642	42010	A	11713	1	430	FSAVREDGGCYLWQIYPIKERM DRIRLVLIICNKEFDHLPFRNGA DFAIMEMKKLLEDLGYSVDVE ENLTAR/HNVSQGETGKGLPIF ITQLIACFQRYSWRCHL\EEVFW KVQQAFESPEATVQMPTIERVS MTRYFYLFPGN
11643	42011	A	11714	3	1195	
11644	42012	A	11715	35	1288	
11645	42013	A	11716	1	1641	
11646	42014	A	11717	1	2933	MVCSAAPLLLLATTLP LLGSPV AQASQPLWPMAGQTMWAQT STLT LTEEELGQSQAGGESGSG QLLDQENGAGESALVS VYVHL DFPDKTWPPELSRTLTPAASA SSSPRPLLTGLRLTTECNVNHK GNFYCACLSGYQWNTSICLHYP PCQSLHNHQPCGCLVF SHPEPG YCQLLPVPGILNLNSQLQMPG DTLSLT LHLSQEATNLSWFLRH PGSPSPILLQPGTQVSVTSSHGQ AALSVSNSMSHHWAGE
11647	42015	A	11718	1	357	
11648	42016	A	11719	73	1494	KSSHCIKMGPQIFHKTSEFLPA TSCPSCPDQNEEDVSQTQYKEC CGGGWCSHSIFAVWHFI*RPDA T*FG*SSAYGFVSDQCP*GSS* LYHLWYSYSGSENKQCG*RAA LGAGFSDKTPAHTVTMACISAN QAMTTGVGLIASGQCDVIVAG GVELMSDVPPIRHSRKMRLML DLNKA KSMGQRLSLISKFRNF LAPELPAVSEFSTSETMGHSAD RLAAAFVSRLEQDEYALRSHS LAKKAQDEGLSDVVPFKVPG KDTVTKDNGIRPSSLEQMAKLLK PAFIKPYGTVTAANSSF/LLTDG ASAMLIMAEKALAMGYKPKA YL/RRDFMYVSQDPKD\HLLLG PTYATPKVLEKAGLTMNDIDA FEFHEAFSGQILANFKAMDS WFAE\NYMG*KKPRFGLPPLWR RFNNWVG\GSLSLGHFPFGATGCR LVMTAANRLREEGRASMA*V A\ACAAGGQGHAMIV\EA YPK
11649	42017	A	11720	1	642	

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11650	42018	A	11721	17	960	KSGARSLQPQFLRAPEDGGPLS LPNAAMARGPKKHLIRVAAIP KHWMLEKLTGGCAIPRHSPVP HKLARECLPLIIFLRNRLKYALT GDEVKKICMQRFKIDGKVART *YNPTPAGFHGMSSAFDKTGEE NFPS*SIDTKGSAFA\VHPYLTTL EEGQSTSLVPKVKKRSFVGHKK GIPSSWVTS*WPATIR*PRSPSSK VN*YHFRLELETWQRLLEDF\IKF \DTGNL\CMGDWGGANLGRN WVLITN\REHHPGSFDPWFHVAK DANGN\SFATRLSNIFVIGKGNK PWISLPRGKGIRLTIAEERDKRL AAKQSSG
11651	42019	A	11722	1	460	
11652	42020	A	11723	1	243	
11653	42021	A	11724	94	311	
11654	42022	A	11725	400	792	
11655	42023	B	11726	473	596	
11656	42024	A	11727	1	1707	
11657	42025	A	11728	3	484	
11658	42026	A	11729	122	253	
11659	42027	A	11730	1	803	RGGRGGAGAAGAELAGPLPSP APFESPGFTTPGPWGSICPAFA HALHSGTVPARSGRTMARGAA LALLLFGLLGVLVAAPDGGFDL SDALPDNENKKPTAIPKKPSAG DDFDLGDAVVDGENDDP RP PN PPKMPNPNPNHPSSSGSFS\DA DLADGVSGGEGKGGSDGGGSH RKEGEE\ADAPGVIPGIVGAVV VAVAGAISSFIAYQKK\KLCFK\ EN\AEQGEVDMES\HRNAQRQK PAVQ\RTLLEKIEDCPEKQPQAF GSRVRTAA
11660	42028	A	11731	335	476	
11661	42029	A	11732	2	169	
11662	42030	A	11733	49	289	VPVVQVPAAPGPLPGPATGSCS ASAAPRPDPDPGGHPEGHHGHS P/GVLGFEVGIFSYCQEQPKCV TIKIFESPIRRRL
11663	42031	A	11734	22	412	ARVGFLGQEGKAGARASGPA DDVC\GKGASAIRSHMRASRSP PSPRRCHHHHEATGTASGSAAG GPGAGCVWLCRLALTPSAQDG RNSTFQTYKKEVCLPRHSHPCW MHAAGTTAGGSAVMSACCPSS SR

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11664	42032	A	11735	250	571	KGPRVTQGATVPKRQAPSAGL D/GSPISQFPWSY/DV*AIAILCG QGV T*PLPVSPGGPAPPESVAL AEWVCSGSRRLSNSGIARRPIG VIQPLDFLQNWPKPVLRC
11665	42033	B	11736	1	1593	
11666	42034	A	11737	2	1175	
11667	42035	B	11738	206	354	
11668	42036	B	11739	850	1461	
11669	42037	A	11740	2	663	VLLDERSAALDGA KR DGT LAL AAGALCREARAAQVFLKGGY EAFSASCPELCSKQ/INVSANCP NHFE GHYQYKSILCGMTTHKA DISSWFNEAIDFIDSIKNAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFVPV SIPDHSTNSALS YLQSLITTSSHC
11670	42038	A	11741	1	474	
11671	42039	A	11742	3	1354	WAVCATRVGGAVGGTAKKPR SPEPRVTL LSQSKSGFWFGAER PGGLAFPRKAPCPWPREQTKS TAGPITLGALRPAMVMEVGTL DAGGLRALLGERAAQCLLLDC RSFFAFNAGHIAGSVNVRFS TIV RRRAKGAMGLEHIVPNAELRG RLLAGAYHAVVLLDERSAALD GAKRDGT LALAAGALCREARA AQVFLKGGYEAFSASCPELCS KQSTPMGLSLPLSTSV PDSAES GCSSCSTPLYDQGGPVEILPFLY LGSA YHASRKDMLDALGITALI NVSANCPNHFE GHYQYKSIPVE DNHKADISSWFNEAIDFIDSIKN AGGRVFVHCQAGISRSATICLA YLMRTNRVKLDEAFEFVKQRR SIISPNFSFMGQLLQF*VPQD/VL VPHCSAEGWEAPDMAVLDRG TSTTTVFNFVPVFI PVHSTNSAL SLPFRGPINGPFPAG
11672	42040	A	11743	196	1260	
11673	42041	A	11744	5	447	
11674	42042	A	11745	1	328	
11675	42043	A	11746	3	364	
11676	42044	A	11747	1	816	
11677	42045	A	11748	1	1377	

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11678	42046	A	11749	1	989	EGRTVLGGGLGSAAAMASRL LNNGAKMPILGLGTWKSPPGQ VTEAVKVAIDVGYRHIDCAHV YQNEVEVGVAIQEKLREQVVK REELFIVSKLWCTYHEKGLVKG ACQKTLSDLKLDYLDLYLIHWP TGFKPGKEFFPLDESGNVVPSD TNILDTWAAMEELVDEGLVKA IGISNFNHLQVEMILNKPGLKY KPAVNQIECHPYLTQEKLIQYC QSKGIVVTAYSPLGSPDRPWAK PEDPSLLEDPRIKAI AAKHNK\T TAQVLIRFPMQRNLVVIPKSVT PERIAENFKVDFELSSQD\MTT LLSY\NRNWRVCALLSCTSHKD
11679	42047	A	11750	1	855	
11680	42048	A	11751	2	367	
11681	42049	A	11752	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTTRPALQELLKEALNME RNNQYQPLQKHAKW
11682	42050	A	11753	1	1536	
11683	42051	A	11754	1	2541	
11684	42052	A	11755	1	1788	
11685	42053	B	11756	1	1014	
11686	42054	A	11757	1	777	
11687	42055	A	11758	1	1029	
11688	42056	A	11759	1	2052	
11689	42057	A	11760	1	1392	
11690	42058	A	11761	1	993	
11691	42059	A	11762	1	1240	PTDPAAEGPCLLDAKTNKRKGP STPILPFCSPFIRGPKVDSTHGA WGQKQHR*TGIF*RSRAPSP\PI KEHGSSPATEQSWMENDFDEL REEGFRR\NSELKEEARTHGK EVINLEKK\LDEWITRITNAEKC LK\ELMELE\TKA\RELREECRS\ LRSRRNQLEERVSAMEDEMNE MK\QEEKFREKKNNKKK*TKAL KELWDYVKRP\NLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QAN\VQIRGNRYRERPQRLPPRG RATPRTH\IIVRFTKVGNGREKM FKGQPGGKGR\VTLLGKPIITLT ADLSAETSTSQKTEWGPIFNILE GKEFSNPEISYLSQT*AFISGREE LNSFYRTSQMLRDFCHHQASRL P*KSTRPALKELLKEEALKHKGK GNNPVPSHLQKFIA

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11692	42060	A	11763	1	1917	
11693	42061	A	11764	268	307	AHHTHLCLLTESPPEGR*VCWG CGLGWGVVLSLVCPP
11694	42062	A	11765	2	349	
11695	42063	B	11766	1	1734	
11696	42064	A	11767	1	603	
11697	42065	A	11768	1	420	
11698	42066	A	11769	115	796	EWSSVRRSLVEKRALRRPHQC LCFRMKTILSNQTVDIPENVDI TLKGRTVIVKGP/REGTLRRDFQ SPSMENFTFLERKKRLRVDK WWGNRKE\LATVRTICSHVQN MIKGVTLGFRYKMRSV\YAHFP HQPLLSRGNGSLV\EI\RNFFG*K NISARVRMRP\GVA\CSV\SQAQ KGEF/ISLEGND\ELVNSNA\ALI QQATT\VKNKDIRKFLDGIYVFE KGTVQQADE
11699	42067	A	11770	1	295	ASTAGVSYYYVAQAGLKLLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETHLSKLSQGQK TKHRMFSLVGGN
11700	42068	A	11771	3	342	
11701	42069	A	11772	1	182	
11702	42070	A	11773	1	439	
11703	42071	A	11774	1	325	
11704	42072	A	11775	2	91	
11705	42073	A	11776	167	861	IWAILADPRMAQGKLRMEIGTK LRCLIWTVHKGVHWVTFWWV ERSQTGNLEVRRLWLGLLTHL HSGVNSLFTRARIWNPSMIDW/I KKMWHIYTMEYYAAIKKNQF MSFAGTWMKLSAPAPTFLFL ASFTNHYNLRASLLVESCLAPS YTSVEPRFSIPQSLTPARGSSDG HTCFSHQSHDSLICADSTHFW LSAHIWIQANAPPVPRAPSELSL KTRLKCSPQLNLRPP
11706	42074	A	11777	1	660	
11707	42075	B	11778	1	2633	
11708	42076	A	11779	1	2985	
11709	42077	A	11780	398	605	
11710	42078	A	11781	204	585	VTMCDRKAVIKNADMSEEMH QDSVECATQALEKYNIEKDIAA HIKKEFDKKYNPTWHCIVGEG TFGSLC*HIETKHFHLTSYLGAK WAISFCFKFWFKRHGTVATHPV IPFQKQGIAALNFQLPED
11711	42079	A	11782	1	810	
11712	42080	A	11783	188	534	



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11713	42081	A	11784	1	1188	
11714	42082	A	11785	1	1137	
11715	42083	A	11786	19	428	ERRNSGNMALRVERSVRAVLC SLHVVLAPAAPCLSRPWQLGM GAVWYCNLPEVGTKLNKQDE FGALERVKAASELYSPLSGEVT EINEALAENPGLVNKSRYEDG WLIKMTLSNPS*LDELMSEEAY EKYIKSIEE
11716	42084	A	11787	66	631	RRDPRTPANMALRVVRSVRAL LCTLRVPLPA\APCPPRPWQLG VGAVRTLRTGPA\ALLSVRKFT KHEWVTENGIGTVG\SNFAQ\ EALGDVVYCSLPEVGTKI*TKP SWSLVLL\SVKAASELYSPLSG \EVTEIN\EAL\AENPGTCKTNFC Y\EDGWLIKMTLSNPSE\LDELM SEEAYEKYIKSIEE
11717	42085	B	11788	46	743	
11718	42086	A	11789	209	401	MKPPVRSLSTPPRSIIMGSSATEI EELNTTFKYLTGEQTEKMWQ RLKGMEIKKLN*G
11719	42087	A	11790	135	313	
11720	42088	A	11791	1	624	
11721	42089	C	11792	81	299	
11722	42090	A	11793	5	166	SPVMMSFFLFVCLLT* RSPSSSSSSSSSSSSSSSSPSPSSSFS GSVV
11723	42091	A	11794	3	173	
11724	42092	A	11795	169	291	SCNSSILSFLSLSLVADPQIATYR /S*CSRLGHKGTLPGS
11725	42093	C	11796	1	429	
11726	42094	A	11797	1	279	
11727	42095	A	11798	3	376	
11728	42096	B	11799	1	736	
11729	42097	A	11800	753	2455	
11730	42098	A	11801	1	312	
11731	42099	A	11802	48	397	
11732	42100	A	11803	51	286	
11733	42101	A	11804	1	420	
11734	42102	A	11805	11	537	PDRPTRPCRQCARSFRRKLKAA VGVEGPSLSSGELGTRVPAAPS PTTRPRAMAFCLPSFACI\YSALI LHDDEVTV\TEDKI\NALIKSSR V*MLSPFWPGLFAKALIANVN\ MGSILCNVGAGGPCCPASWVL QPAGRSLPPLLAASSLREKKV\ EAKKEGFRGSFD*LTWGFSGF
11735	42103	A	11806	114	399	

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11736	42104	A	11807	3	599	AIRRLRISAREEERENQPRLLPL SLGAGGGVGGFVQQWPRFKAR DLRGKKKEEL\LKQL\DDLKVE LVPSARRQKRQGGGAAS\KLSKI R\VVRSIAPCSPRLFTQTQKEN LRKFYKGKKYKPL\DLRPPKTR AMRRRLNKHEENL\RTKKQQR KERLYPLRKYAVKALGGALS IKH KENLTKKKQQRKERLYPLRK YAVKA
11737	42105	A	11808	226	370	AGSP*FPQFSEA*RRGALGSGA DQDLSPRITIELTSLTSCRSLQTSS PR
11738	42106	A	11809	3	7964	RSGSSSKFEPRSRSASVLAPSAL GPPNTSPRQLVAHCALPATRMP VTEKDLAEDAPWKKIQNTFT RWCNEHLKCVNKRIGNLQTDL SDGLRLIALLEVLSQKRMRYKY HQRPTFRQMQLENVSVALEFL DRESIKLVSIDSKAIVDGNLKL LGLVWTLILHYSISMPVWEDEG DDDAKKQTPKQRLGWIQNKI PYLPITNFNQNWQDGKALGAL VDSCAPGLCPDWESWDPQKPV DNAREAMQQADDWLGV
11739	42107	A	11810	1	636	
11740	42108	A	11811	3	261	QKKPLKQPKKQA*EMDEV RAGAEALAGAGALGDRPELNTLCLS PEDKAFKQKQKEEQKLEELK AKA\AGKGPLAT\GGIKKSGKK
11741	42109	A	11812	1	621	
11742	42110	A	11813	1	1024	
11743	42111	A	11814	174	332	SHCLANAPGDVKVRNDPESPRE L*HL*R*RINYTRWKRSI*EEWC QGHSWRG
11744	42112	A	11815	1	1323	
11745	42113	A	11816	1	2322	
11746	42114	A	11817	1	336	
11747	42115	A	11818	22	391	PPPPAAKTRRKVLATKVLGTV KWFNVRNGYGFINRNDTKEDV FVHQTAIKKNNPRK\YLRVGD GETVEFDV\VEGEKGAEANVT GPDGVPV\EKGSRYAADRRR\Y RRCY\YDR\RRGPPPEYW
11748	42116	A	11819	433	866	PPPPAAIDAEEKVLATKVLGTV KWFNVRNGYGFINRNDTKEDV FVHQTAIKKNNPRK\YLRVGD GETVEFDV\VEGEKGAEANVT GPDGVPVE\GSRYAADRRRYRR \GYYGKARWPFANYAGGGRR RKGAQVEGFLPPLPLD

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11749	42117	A	11820	63	484	
11750	42118	A	11821	1	819	
11751	42119	A	11822	150	463	
11752	42120	A	11823	63	594	FAKLPNPKGKGGEATRYMFSR PF*ENHGVVPLGHNN*RFYKK GDIVDIQGEWGTLFQKGNC KVVTHGQNLLEGVLPMVTPAML VGHLL*TNQF*GKVFS\KRINVR IEPIK\HSKSR\DSFLK\RVKEND QKKKEAKEKGTWVQLKRQPA\ PPREAHFVRTNGKEPELLEPIPY
11753	42121	A	11824	2	1376	
11754	42122	C	11825	132	341	
11755	42123	A	11826	155	245	
11756	42124	A	11827	3	293	
11757	42125	A	11828	204	467	LRAPHVACSRCNQGPCMENCL NTDQTHQTQTRQG*EEKSSSSK/ PISSLMEYYKRSQCSVKSKARS VF*LKLRAQAQLLQETKKPVFR L
11758	42126	A	11829	1	768	
11759	42127	A	11830	348	568	REISYKERIGM*MPPSVILNSYV KSMLETYPHLLRGVVAPGPLK KGFLTESLLALPDPSFSGRMTSF KITPV
11760	42128	A	11831	1	840	
11761	42129	A	11832	2	216	
11762	42130	A	11833	1	726	
11763	42131	A	11834	3	3231	PGGWLRRALPGRERLQSPVHA VPPQHGTSHSRLLVTWPGAGR DQDFSSPPLLLLGETDHLHLDL PLSPLPTSDELFLPGICDPYVKL SLYVADENRELALVQTKTIKKT LNPKWNEEFYFRVNPSNHRLLF EVFDENRLTRDDFLGQVDVPLS HLPTEDPTMERPYTFKDFLLRP RSHKSRVKGFLRLKMAYMPKN GGQDEENSQDRDDMEHGWEV VDSNDSASQHQEELPPPPLPPG WEEKVDNLGRITYYVNHN
11764	42132	A	11835	1	624	
11765	42133	A	11836	2	361	
11766	42134	A	11837	3	432	NSRVDDFVAAQDAKGGKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLARA EKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPVYCIK GKAR LGRLVHRKTCTTVAFT
11767	42135	A	11838	1	684	

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11768	42136	A	11839	9	247	AVTSDEPKGKKAKAKKVAPAP AVVKNQEAKKVVDPLFEKRHK N\FGIGQDIQPKRASPRLCPLP YIRLQRQRAILYKIRLKGPFCDY PGFTRALDRQTV*SSLLKL\AHK YRP\ETKQEKK\QRLFARAREEG VLAKGDVPNERDPPV\LRARSL TPFHHPWVEKQEKQLVNVNWH TDV\DP\ELVLLALPLCREKW GVP\YCNYRREKARLWDRLV QERPCTTCPFTQGELRKTGG FWLKLGWKLIRTQFTIDQILMR SRRH\WG\GNVLGPKSVGS*SP KLEK\AKAKELAH*TG
11769	42137	A	11840	1	273	
11770	42138	A	11841	1	218	
11771	42139	A	11842	1	1522	
11772	42140	A	11843	136	441	
11773	42141	A	11844	24	274	SRQAWHEAASASARRRGTRSP ALSPARAPAGPIWTNARRSARA NSVSPAAAPPPRRPVSLSDPGE SCTRDPRAPDPCGPFRCC
11774	42142	A	11845	194	365	
11775	42143	A	11846	1	782	LLVVGTTVVVYFPNGRFKEFM SRHVHLMCYRICVRALTAITY HDRENRPNGGICVANHTSPID VIILASDGYAMVGQVHGGLM GVIQRAMVKACPHVWFERSEV KDRHLVV\RLTEHVQDKSKLP ILIFPEGTCINNTSVMMFKKGSF EIGATVYPVAIKYDPQFGDAFW NSSKYGMVTYLLRMMTSAIV CSVWYLPID*ERQIEDAVQFA NRVKSARQGGGLVDLLWDGG LKREKVKDTFKEEQQKLYSKM
11776	42144	A	11847	3	916	
11777	42145	A	11848	13	473	DPPTDSLSPDGGSELEFYLAPE PFSMPSSLGAPPYSGLGVGDP YAPLMVLMCRVCLEDKPIKPLP CCKKAVCEECLKVYLSAQIQCP TCQFVWC*CAGCAWKTSPSSPC LAARRPCARSASKST/SSAQIQ PTCQFVWCFKCHSPWHEGVNC KEYKKGDKLLRHWASEIEHGQ RNAQKCPKCKIHIQRTEGCDH MT
11778	42146	A	11849	92	1103	
11779	42147	A	11850	1	516	
11780	42148	A	11851	1	642	
11781	42149	B	11852	200	608	

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11782	42150	A	11853	1	1856	MEETGMCEGHGASPGMEASSG EREKRGTEASPGDREKRGTE ASSGEREKRRTEASSGDREKR GTGKASSGEREKRGTEASYG EREKRGTEAAGGQESCAHCGG WLMPRAKPSTHRETNPGRTEA TAMAMDHVGQQADTTDSTDG SQWDPSEHSPNCGIREVGAGDP DTQQTGRHHCYYPACKETNEKT NTNRNSNTFIEQLLHAKQQRGN SGVPFKPGHMRALTTNALS AKLYPDWCLRMGGTGNEVFE NEIKTGSCWIKQEGQPRPQSP RSQVRPEADPGPSPLTKMSAEN EYRPPSPKLAERDKPSPRLRP RGVPWRRESRVAGRECALLR VAAEGARPPAGMSYDRAITVF SPDGHLFQVEYAQEAVK\RGST AVGVRGRDIVVLGVEKKSVAK LQDHRPVRKICTLHDN\VCMA FAGL/TPADARIVIQTGPGVEFQ\ SHRA*\TVEGPRVTVE\YITPLTF ASLKASVYTQSKWGARPFGVIS GPHRGFSTFDGTP*LYQTDPSG TY\HAWKA\NSIG\RGAKSSARS SWEKNYTDKAIETDDL\TI\KL IKALLEVVQSGGKNIE\LAVMR RDQSLK\NLNPEEIEKYVA\IEIK EKEEN\EKKKQKKAS
11783	42151	A	11854	12	432	

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11784	42152	A	11855	1	1775	MSYPADDYESEAAYDPYAYPS DYDMHTGDPKQDLAYERQYE QQTYQVIPEVIKNFIQYFHKTVS DLIDQKVYELQASRVSSDVIDQ KVYEIQDIYENSWTKLTERFFK NTPWPEAEAIAPQVGNDVFLI LYKELYRHIYAKVSGGPSLEQ RFESYYNYCNLFNYILNADGPA PLELPNQWLWDIIDEFIYQFQSF SQYRCKTAKKSEEEIDFLRSNP KIWNVHSVLNLVHSLVDKSNIN RQLEVYTSGGDPESVAGEYGR HSLYKMLGYFSLVGLRLHSL GDYYQAIKVLENIENKSMYS RVPRVPRSPYTYVGFAYLMM RRY\QDAIRVFANILLYIQR TKS MF\QRTTYKYEMINKQNE QMH ALLAIAL\TMYPMR\IDE SIHLQL REKYG\DKMLRM\QK GDPQVY EELFSYSCPKFL\SP VVPNYDN\ HPN\YHKE\PFLQ\Q LK\VFSDEV Q\QQAQLSTIRS FLKLLHPPCLV AKPGLASLDL TEQEFRIQLLVF KHKMKNLR VDSAVSQALDGEF QSASEVDF Y\DKDMIHIADTK VARRYGD FFIRQ\HKFEELNPN P*RRM G\QRPWMIFTTHSGNLV
11785	42153	B	11856	1	537	
11786	42154	A	11857	98	334	WATERWKGRKNHEISWKCFPG KAIS*MRSSKQMKPNFPRCS SIT VLSVRGMVLFLLACPRFK MSS RTDFRFGNPQVT
11787	42155	A	11858	4	422	
11788	42156	B	11859	1	2567	
11789	42157	A	11860	2	364	
11790	42158	A	11861	1	501	
11791	42159	A	11862	1	402	
11792	42160	C	11863	30	673	
11793	42161	C	11864	195	1263	
11794	42162	A	11865	3	648	
11795	42163	A	11866	200	420	ILPSALRPPNPNNVVG/YVQ TQ LVSKPLSLPTGIPCSTTS NILKPV ITKDARLHRVIVHGW GIKGTIPI AKIAIS

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11796	42164	A	11867	1	502	MQLPGRGHSFVCKANAGSTQA RQGASAGVAGCRGWLNYAAS EQIVLRVPHMRCEIPHKCVRRK SRIRPHSPFRLRNCWKGRSVRA FSLLRQLAKGGCAARRLSWVT PGFSQSRRCKTTASAKLACLV RAQSEDISTVPIHYAYNMTRVG RMQMLGKYNPQSAKLVRERIL PTKATLDLSNQNNEDFSAFQLG LAQALHIKVHTMTREVMSEDL TKLLEGNLKPAIDMMVEFNTT GSLPENAVDVLNTALGDRKSF VALMALMEYSRYLVAEDKSAF VTPLYVEADGVTNGPINAMML MTGGLFTPDWIRNIAKGGGL*FQ YTFTFNRSRSQCFHIFQETSKK FFSMCF*SSLLTKHCHSSRDVW VFSTSFQHIRHTLIDGISNRTNQ LTCNTTSTRITIDGNSQRVLSNTT
11797	42165	C	11868	1	3831	
11798	42166	A	11869	1	5370	
11799	42167	A	11870	1	3999	
11800	42168	B	11871	1	12036	
11801	42169	B	11872	1	16395	
11802	42170	A	11873	1	19997	
11803	42171	A	11874	1	70	
11804	42172	A	11875	44	613	AGTHLRPFSPSLSAAMALRYPM AVGLNKGHKVTKNVSKPRHSR RRVGRVTKHTKFVRDMIREVCG FAPYERRAMELLKVSCKDKRAL KFIKKRVGTHIRAKRKREELSN VLAAMRKAANKKDLGPSPCPL PEIKDKLDRSPGSPAVRGVWV VCRGPAVPCLVPALSHTLSGCC LVVNQKPWPAHPSRGR
11805	42173	A	11876	1	150	FRGRCCVQRYRGCTLASA/CLL VGAEAPSPVDPLERSRPYAVL RGQNLE
11806	42174	A	11877	447	725	
11807	42175	A	11878	2	206	RPVAYLLLQGWGRCCVQRYRG CTLASA/CLLVGAEAPSPVDPL ERSRPYAVLRGQNLDQTLH*ST HQA
11808	42176	A	11879	1	413	
11809	42177	A	11880	122	268	
11810	42178	A	11881	1	555	

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11811	42179	A	11882	221	419	LQTLQGYSNQNSMVLVPKQR YRPMEQNRALRNNAAYLQKSP *ADKQLQQ/ECQDTKSMCKNH KHSYTPITDKQRAKSRVNSHSQ LLQRE*NT*ESNLQGA*RTSSRR TTNHCSMK*KRIQTNGRTFHAH G
11812	42180	A	11883	1	2464	MDEFLNTYTLPRLNQEEVESLN RPITGSEIVAIINSLPRKKSPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKK WKNIPCSWVGRINIM
11813	42181	A	11884	2104	2637	MFQRGHISQWWVVVGALTVFT SVLDTDPMRDNKRSGSEILPFC REHGTSFTYNHAHSPSCSPSCL FSGALFSPENNSGFLCMTLPAS FTAGNRLFSSAGQPWWIQQGF KAHAKARRLILLAFHHYCCRPF LAVELKPSPVSTPTFLFA*LLPP CSVPGAILHESFGEAITWLDAE
11814	42182	A	11885	69	417	QTHSQHYTEWGKVESIPPENW NNTRMPIFTISIQHIIRSSSESNT RERNQGHPNG*RGSTVAFC*R YDRIPRKP*RLIQKTPRTASAAD TQANRVWSGPPASSNRPA AEGP DC
11815	42183	A	11886	376	597	ENKIPRNPTYKGCEGPLQGELQ TAAQGNKRGHKHMEKHSRLM DRKNQYPSAADTQANRVWSGP PANSNRPA AEGPD*PGQNFQYH VE
11816	42184	A	11887	5	292	LTVSCPCSRMLFLTDDVLLPLM FIKKLGANVASPSSKKPLFVIRL VITTLPLACGLTPTSSVSRTTFF RTMLPQA\PEFAPPSTGTESHYY CCIW
11817	42185	A	11888	320	596	YPGKQGLEWTSSKLQQTCKRY RERHKDTP/TRRATPR/RHNCQV HQS*NEGKNVKGSQRERSGYS QREAHQTNSRSLGRNSTSQKRV GASIQRS
11818	42186	A	11889	3	239	EASRGRIRQQHLPCNICCSAAS TGDTQANRVWSGPPANSNRPA AEGLDC*KEN*QTERTSTPKPD LYITIIKDQSL



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11819	42187	A	11890	3	278	EASRGRI RQQHL PFCNICCSAAS TGDTQANRVWSGPPANSNRPA AEGLCD*KEN*QTERTSTPKPD LYITIIKDQRLIPGLFTSPWISARI
11820	42188	B	11891	394	1213	
11821	42189	A	11892	856	1217	VDRSRLQKVSNNKL VQAKGGC SNPLQGS*KLDNPKDANS/RQQ PERTWKWIFQPHR*GAFGPRH C*ESHL YQFGLDLLNSAGSGIG KNEVQEQKRAEVGARA APEKE LPEALSWFLKVLW
11822	42190	B	11893	1	894	
11823	42191	B	11894	93	938	
11824	42192	A	11895	149	508	LLEGKLTNKKDIHIKTPSVRHH HQRPKPKISLS**ATSAKSQDTK SMCKNHKHSYTTITDKQRA\NH E*TPIHNCFKESKIPRNPTYKRC *G/RSSRRTANHCSRK*KRTQTN GRTFHTHG
11825	42193	C	11896	1	1257	
11826	42194	A	11897	183	1065	YWRCNGFLS*YAEAAEEIVDCI TESLSILKTPLPKKMNEEMLCQ EFGRFGPLASVKIMWPRTDEER ARERNCGFVAFMNRDAERAL KNLNATAFRPALSHFPSLPMDT TSQIPKHVPVTVSSTNKLILIKTH FQAQSSLNQNIHPMDPSHGIQY SAFSPSTPNPSHPALP*PLAIQVH HAVCDGFHVGRMLNELQQYC DEWQRDKLEEILRGLTPRKNDI GDAMVFCLNNAEAAEEIVDCIT ESLSILKTPLPKKMNEEMLCQE FGRFGPLASVKIMWPRTDEERA RERNCGFVAFMNRDAERALK NLNATAFRPALSHFPSLPMDTT SQIPKHSSHRQFNKQAHSDHQD SLSGPVQSESKYPSHGSIPWDSI LSLLTLNTQIPPSLALTHMEME SGLHFHCPFTASPPSAVPPPELE KTTLKFIWNQKRARIANSILSQ KNKAGGITLPDFKLYYKATVT KTAWTGSPTAIRQARTTRQEKE MKGIQIGKEEVKLSLFTDDVNL QVRENK
11827	42195	C	11898	138	644	

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11828	42196	A	11899	2	3088	ADKTPGGSQKASSKTRSSDVHS SGSSDAHMDASGPSDSMPSTR RPKSPRKHNRYNESARESCLDS PHQNLSPLENKLKAFSIGKM STAKRTLKKEQEELKKKEDEK AAAEIYEEFLAAFEGSDGNKVK TFVRGGVVNAAKEEHETDEKR GKIYKPSSRFADQKNPPNQSSN ERPPSLVVIETKKPPLKKGEKEK KKSNELEFKEELKQIQEERDER HKTGRLSRFEPQSDSDGQRR SMDAPSRNRNSSG
11829	42197	C	11900	413	823	
11830	42198	A	11901	263	1246	NPGKQGLEWTSSQTPADLQLR VLTVRNTNKQKGHPHQNPICT SPSSKTEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPMME DQMNEKQEEKFREKRMKRN EQSLQEIRDYVKRPNRLIGVPE SDGEKEPSWKTLCRILSRRTSP A*QGRPTFKFRKYRECHKDTPQ GEQLQDT*LSDSPKLK*RKKY* GQPERKKYRLPSANTKTSRLK* TRKSRRNG*ITGHIHPKTKPGR S*IPE*TNRL*N*GNN**PANQK KSRRRIHSQILPEAQRGAGTIP SETIPINGKRGNNPKLIL
11831	42199	B	11902	67	2584	
11832	42200	A	11903	1	3793	MSDAEDERFLQFQLRYRVYLT GDCRTVGAGQWVQRTEREPKQ GEALPHPGSARGWGVFPFRDD GWHLNRTVPTLILRFSHSLSK QHTRRPYSAPGSEGPTTEPCSL LAQQSEIKLQDGSEAGGGPLLLI PRQTGSGVDLRQTPTDMQLRV LTVRRKTNKQKGQPHQNPICTS PSSKTKAPHHTYSKTDHIVGSK ALLSKCKRSEIITNCLSDHSAIK LELRKKRIQNRSTTWKLNLL LNDYCVHNEIKAEI
11833	42201	A	11904	1	441	

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11834	42202	A	11905	312	3705	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECLDRDEERAYVLYM KYVTVYNLIKKRPDFKQQQDY FHSILGPGNIKKAVEEAERLSES LKLRYEEAEVRKKLEEKDRQE EAQRLQQKRQETGREDGGTLA KGSLENVLDSDKDTQKSNGEK NEKCETKEKGAITAKELYTMM TDKNISLIIMDARRMQDYQDSC ILHSLSVPEEAISPGVTASWIEA HLPDDSKDTWKKRGNV
11835	42203	A	11906	1	609	
11836	42204	A	11907	3	755	LRVDNAPAHASGLFFCAGAAAG TVLFAMAPSRNGMVLKPHFHK DWQR\RVATWFNQPAR\KIRR\R RPRQAKARRIGAPRGGGPIRPI VRCPTGRVHNGSWRPGRGFQP GRSSRVAGHSPRKVAPDPSGIS VDPK\RETSSHGSPLQAQRAS GLKE\YRSQTQSSSPRKPSAS/PL *GDSSAEELKL\ATQ\LTGPVMP VRNVYKKEKARVITEEV\KNF KAFASLRMARA\NARLFGIRAK RAKEAAEQDVEKKK
11837	42205	A	11908	1	327	
11838	42206	A	11909	1	756	
11839	42207	A	11910	1	219	
11840	42208	A	11911	2	227	
11841	42209	A	11912	1	567	
11842	42210	B	11913	99	799	
11843	42211	A	11914	61	342	
11844	42212	B	11915	1	945	
11845	42213	A	11916	92	133	DPPSQKLKTLRKD*TNG*LQ*P MKRSP*MT*WS*KP*HENYVTH AQASVPDSINWKKGYQ*LKIK* MK*SKKRSLEKKE*KETNKASK KYGTM*KD
11846	42214	B	11917	1	368	
11847	42215	B	11918	1	106	
11848	42216	A	11919	1	705	
11849	42217	B	11920	1	834	
11850	42218	B	11921	1	1305	
11851	42219	A	11922	1	1187	
11852	42220	A	11923	228	619	

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11853	42221	A	11924	1499	2238	KGKKKVINQISLGQRMRLSQSS HGKVQACQVPFHPNAPPAVQF QSRELQSGSRPRSCGEKATRCL RQGPREVPLPKNAWA*QRKQE KKRSRKGS/GREPGLRRPPNAQ ARDRSSRAPATHRKELKPEREH ISCSRSIRYQEWSVLRDVTVHR NLVLDTKRHPALILVEYKERTS SPATEQSCMENDFDELREEGFR RSVITNFSELKEDVQTHHKEAK NLEKRLDKWLTRINSVEKSLND WMELKTMA
11854	42222	A	11925	699	796	
11855	42223	A	11926	1029	1223	ERELPDPLRFPSEGNASALLSAS RTVRASTDLRPLSGTP*RDEPGT SDGNAEITRLLRRSGWEL
11856	42224	A	11927	186	1597	
11857	42225	A	11928	1	1200	
11858	42226	A	11929	1	600	
11859	42227	A	11930	1	663	
11860	42228	A	11931	908	1331	GDMRGRREGGFGLGRRTAMRC GCSPGIVREADNLVKLSRPSTV RVTRSSASVMVLTMLPATFL RVNCWAG/RGR/C*SQNETVSR TRCEEGR**KDYRVEEQRLRKN WDLARPGEEQLAPSPEKRDPL RVKDQGRHPCVV
11861	42229	A	11932	1	1707	
11862	42230	A	11933	1	1012	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSHSAI KLELRIQNLTQNHSTTWKLNLL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFK/RSV*R EIYSTKCPQEKAGKIQN*HPNID QQN**TTSKANKEKKREDSNRC NKK**RGYHHRSHRNANYHQR ILQ/YTSMQIN*KI*KKWINSSTH TLSQD*TRKKLNL*IDQ*QELKL WQ*SIAYQPKRVQDQMDSQPN STRVASKRIKYLGIQLTRM*RTS SRRTTNHCSMK*KRIQTNGRTF HAHG
11863	42231	C	11934	1	1788	
11864	42232	A	11935	550	827	DVSWAGRSEDHRWIFLKEQRT GGPPK/ERSRSESRRHQISCMCAA STWMERTA YGGSHRELLQL PQEHTRKTLPLQQTSAWTYRLF HTSCEI

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11865	42233	A	11936	584	1094	NWIPSLHLTQKLIQDGLKT*MLDLKP*KP*KKT*AIPFRT*AWARTSCLKHQKQWQQKPKLTNGI*LN*RVSA/PAKETTISMN/EATYRMGENFCNLLI*QRANIQNLO*TQTNLQEKKNKQPHQKVGKGHEQTLLKKRHLCSQKTHEKMMLIITGHQRNANQNHNEMPFHTS
11866	42234	A	11937	797	1044	EESIS*KWPYCPR*FVDSMPSPSYR*VSSQNWKLL*SSYGTKQEPTLPSQS*AKRTKLEASHYLTSNYTTRLQ*PKQHGT
11867	42235	A	11938	176	374	LTNQKKSRTRWIHSQILSEVQRGADKQPNRE*TPIHNCFKENKIPRNPTYKGCEGPLQGELOTTAQ
11868	42236	B	11939	1	1843	
11869	42237	A	11940	3227	3391	DPLPGQRQLLLQKQRRP*TQAGLLSFQPGPQPHGSVPPTLSQPWLPGGWPELSG
11870	42238	B	11941	1	1479	
11871	42239	B	11942	1	2097	
11872	42240	A	11943	654	1341	KNRNYNKLSLRPQCNQTRTQD*ESHKPLNYMETEQPAPE*LLGT*RNEGRNKDVL*NQREQRHIPESLGRIQSSV*REIYSTKCLQE/I/MQERSKIDTLTSQLELEKQEQTHSKASRRQE/DN*NQSRTEGNRDTKNPSKNQ*IQELVF*KDQQN**TASKTNKEKKREESNRHNKK**RGYHHRSHRNTNYHQRI LQTPLRK*TRKSRRNGYIPRHHSPKTKTGRS
11873	42241	A	11944	471	611	
11874	42242	A	11945	1	585	
11875	42243	A	11946	3	1029	GRQHGGSQRMGGTASARASSGRLAPRGRGAFARRRCPSPRRWRLTCGPAAVEHSFCHNVGPGVRATADKYTCMFTYASQGGTNEQWQMSLGTSEDHQHFT\CTIW RPPRGKSYL\YFTQFKAEVAGR LRFEYRHGLTFKAA/SLKRESDVPLENLRNFEVNQNSSGLTRPG GISKAELESLVIVGQGIRALSCDQQPLLRRGGTFSSPVKLKGACVPERAQHITGFLGGTLKFSTWADV ALSRRGFSGWLKPWGREQRVQ GPPGSQQLFRFPLPVKLFWTQD RRSRGTKRVGNMGAMLGKAA MLPTSSRASFMQLQNCFPMT QGTSFQMNWEEMKCFIFK
11876	42244	A	11947	1	1206	

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11877	42245	A	11948	1	654	
11878	42246	A	11949	849	1089	SPEGKHYRCYL VHMPSDTERSS L*MRPRAGRSSAEGPGCRQRSL ALDHMVQQAQRCWRYQWWR RFSKEFNQWWRWFSEEL
11879	42247	A	11950	5	1376	
11880	42248	A	11951	2	278	VPQPDTRKGSVLK WISKRGKPL AVEIEESHCL\CLPLRTECLGIKP \IVHLFSCTRPVIVPSLELNYDV DSIAHMFVADLLLMITLPSYDIP
11881	42249	A	11952	3	267	
11882	42250	A	11953	1152	1338	FKRGQYGRLLRPRFHHGQILYA RRQGAIEPLAIQVHHA VCDGFH VGRMLNELQQYCDEWQGGA
11883	42251	A	11954	394	615	ASDPLRGLLCGPSLLDERHPLL HGAQSHRPPKG*GVRANNAGL AGSSIYLQPRCGIHEVKPSGLLS REGLQLQS
11884	42252	C	11955	114	362	
11885	42253	A	11956	1	211	
11886	42254	A	11957	395	547	
11887	42255	C	11958	412	641	
11888	42256	A	11959	3	905	SNNSPTSASRVAGITGVRHCVR NWWVLGLTDFKNEAVDPRAW TTKSKTPPQNKTKQENKNEDV GRDQRVEWLVT EEVSLSLKG EKLHWKEKEVQSTGKETDARS SMRNYLMLLGPEVQEKEPVKR RLARGKAFVELAEPTRAPGNSG FPVSGGVFTPSLGALTWICKFR VKSWAILNSQLLLDTMKGKIV YKNGDRIQGNRSADNRNNGVP LTGARDMQPAMPEPPTHSMGS CAARAFPMASACFRAPSPIDH PKAEE\WGARRGTGGQPTCSP GAGIHWKPAGLLSREGLQLH
11889	42257	C	11960	482	709	
11890	42258	A	11961	1	734	MRLESD/KHLVQFVPIHKSGL EYPIGPWL PFITNSRVQEAFYH DRHSFEAVLDLNAAPESVDLAE AERLAEDLRLLYVALTLSAFAP LVRRRGDKKGD TDVHQSALGR LLQKGEPQDAAGLR TCIEALCD DDIAWQTAQTGD NQPWQVND VSTAELNAKTLQRLPGDNWRV TSYSGLQQRGHGIAQDLM PRL DVDAAGVASVVEEPTLTTHQF PAGASRGTFWHS LFEDLDFTQ PVDPNWRL
11891	42259	A	11962	21	898	
11892	42260	A	11963	1	1962	

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11893	42261	A	11964	1	313	MRFYGQLAEDPGQKAGETTR HTEDYISQLPLQRQGIPELALQK DLFINKIYGKEFNVCSTLEDPR VHVLCDMDDEAGNHHSQTIA RTENQTPHVLTHRRELNNENT WTQGGEEHTPEPVMGWG*RPR AAKSWGNNKAY*RLYFSAFA ETRDPRTPCSERSFY*QDLWK/ MSSMSAGRL*RIPEFMSFVGTW MKLETIILSKLLQGQKTKHRMF SLIGGN
11894	42262	A	11965	47	178	QQLVHTAFVIRLIRGTTEGAWR NCKQMAR*QSI SLECKFMPRT
11895	42263	A	11966	2	223	
11896	42264	A	11967	2	133	
11897	42265	B	11968	179	6003	
11898	42266	A	11969	1	1125	
11899	42267	A	11970	1	360	
11900	42268	A	11971	677	1238	
11901	42269	C	11972	193	471	
11902	42270	A	11973	17	280	
11903	42271	B	11974	1	654	
11904	42272	B	11975	526	597	
11905	42273	A	11976	1	1261	
11906	42274	A	11977	170	998	
11907	42275	A	11978	1	1130	
11908	42276	A	11979	1	369	
11909	42277	A	11980	1	300	
11910	42278	C	11981	207	451	
11911	42279	A	11982	1	348	
11912	42280	A	11983	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFSSNTTCQQFRDPGFR GRYPASPHTLSLPPETAHL*LLL CLPAAGVLPHTWPLDRQGWH RGHAR

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11913	42281	A	11984	1	937	MAAPLVLVLVVAVTVRAALFR SSLAEFISERVEVVSPLSSWKRV VEGLSLLDLGVSPYSGAVFHER QYIPVKMKSKAFWIFSWWEYAM MYVGS/HSGNHLPLLLPSQLLG FHPRSL/VALYFLFQISLQTLVIF WYFFAEMFEHFSLFFVCVFQIN VFFYTIPLAIKLKEHPIFFMFIQI AVIAIFKSYPTVGDVALYMAFF PVWNHLYRFLRNIFVLTCHIVC SLLFPVLWHLWIYAGSANSNFF *GITLTFNVGQRPHRLKAPRASS AARSDRGPAASPSPGDAARPV SGRRPWDAPPHNYLNAVPPPSR
11914	42282	A	11985	1	521	
11915	42283	A	11986	1	207	
11916	42284	A	11987	1	867	
11917	42285	C	11991	1	225	
11918	42286	A	11992	72	425	
11919	42287	A	11993	1	354	
11920	42288	A	11994	460	752	
11921	42289	A	11995	93	401	PQKKYIHIFLDSLALLPRLECSG AISAHCKLHLLVSSDSPASASQ VAGITGARHHAWLIFVFLVEM GFHH/VGQAGLELLTSGDPPAL ASQRAGVSIFIYLFIF
11922	42290	A	11996	2	315	
11923	42291	A	11997	615	1180	
11924	42292	A	11998	3	151	
11925	42293	A	11999	2126	2241	
11926	42294	A	12000	1	765	
11927	42295	A	12001	924	995	
11928	42296	A	12002	1	789	
11929	42297	A	12003	2	132	FFFFFLVEMGFHHVGQAGLKLL TSSD\RPPWPPKVLGLQARAT
11930	42298	A	12004	504	755	



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11931	42299	A	12005	1	1322	MAILPKVIYRFNAIPIKLPVTFFT ELGKTTLRFIWNQKRACIGKSV LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT ESSEIMLHIYNHLIFDKPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTSTHTKINSRWIKDL NVRPKTIKTLEENLGNTIQAIG MGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETTIRLLG RPPALFTASSSVLKQLALEGILI LDSRALLGFLYEARHSHSNPN HDAQNATSKKNIRDGYDKIYR QEQVLARMEETLITAGGNVK WCSHFRKQIGGQWLTLETCTK TPQPFSSTSQISTDKDKGLNPQL LKMDPGHMGWCPPGMGIPWQ LSSDDR VVWVLAAGSGRHPGS GFKSL/PGLLHEGSYGH****S*I *GGNS*GSSGGPQCISGEERVFR
11932	42300	A	12006	12	143	
11933	42301	A	12007	1	534	
11934	42302	A	12008	1	591	
11935	42303	A	12009	2	353	
11936	42304	A	12010	1	1923	
11937	42305	A	12011	1	465	
11938	42306	A	12012	1	784	PGWEKRMSRSSVVNTQEALPT AAIPRDAKGRVYYFNHITNASQ WERPSGNSISSGGKNGQGEPAR VRCSHLLVKHSQSRIPSSWRQ EKITRTKEEALELINGYIQKIQS GEEDFÆESLASQFSDCKHQPKA RG\DLGAFQQKVRLQKPF*RTP RFALADGGR*AGPCFTDSGIHII LPHLSEGWGAQAWPRGRAGRL GRPAPPCPPASGRTPHSLPPSHSI YCSHNGWEGALPDWGPFTGTGG PGVPHLSVPSWGC DLQTLH
11939	42307	A	12013	1	319	PRERAPRGSVGAGGEICHTSVC CCQPSWTRLLLLITWMLL/YYS ECKPFHCSREEDPNHILLKI*EF GPPSTQGQHAAPLSRSRYSCCP DRYLLRKLKLGICQEHQLL
11940	42308	A	12014	1	1058	
11941	42309	A	12015	1	861	

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11942	42310	A	12016	1	431	IVLGGVATTVCQLNEFIMTDNA VPADVLVLTKPLGTQVAVAVH QWLDIPEKWNKIKLVVTQEDV ELAYQEAMMNMARLNRTGGL LICLPREQAARFCAEIKSPKYGE GHQAWIIGIVEKGNRTARIIDKP RIMEVA\HKWPLKM
11943	42311	A	12017	1	1020	
11944	42312	A	12018	247	1436	GERGPRTMSTRESFNPSYELD KSFRLTRFTELKGTGCKVPQDV LQKLLESLQENHFQEDEQFLGA VMPRLGIGMDTCVIPLRHGGLS LVQTTDYIYPIVDDPYMMGRIA CANVLSDLYAMGVTECDNML MLLGVSNNKMTDRERDKVMPLI IQGFKDAEEEAGTSVTGGQTVL NPWIVLGGVATTVCQPNFIMP DNAVPGDVLVLTKPLGTQVAV AVHQWLDIPEKWNKIKLVVTQ EDVELGLPGRRLMNMARLNRT AAGLMHT\FNAHAATDITG\FG ILGHAQNLGQASRRNDVSFVIH NLPGAWPRWLA VSKACG\NMF GLMHVTCPETSGG\LLICLPRE QAARFCAEIKSPKYGEGHQAWI IGIVEKGNRTARIIDKPRIIEVA\ HKWPLKM
11945	42313	A	12019	219	380	RPLQIRSHSELLGVWTPPTSEF*E DTTQSVTAGLLEVSWSGRVVLCS KSFALQS
11946	42314	A	12020	1	516	
11947	42315	A	12021	1	228	
11948	42316	B	12022	56	656	
11949	42317	A	12023	1	488	
11950	42318	A	12024	3	419	
11951	42319	A	12025	1	348	
11952	42320	A	12026	1	708	
11953	42321	A	12027	25	213	
11954	42322	A	12028	1	1165	
11955	42323	A	12029	1	411	
11956	42324	A	12030	1	996	
11957	42325	B	12031	1	744	
11958	42326	A	12032	1	444	
11959	42327	A	12033	1	555	
11960	42328	A	12034	1	2241	
11961	42329	A	12035	1	408	
11962	42330	B	12036	1	423	
11963	42331	B	12037	1	507	
11964	42332	A	12038	3	529	
11965	42333	A	12039	191	319	
11966	42334	A	12040	1	660	

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11967	42335	A	12041	1	579	
11968	42336	A	12042	1	2940	
11969	42337	A	12043	1	4280	MEYYAAIKKDEFMSFVGTWM MLETIILSKLSQGRKPKRRMLSL IGSOLLTNKGTSMWNEFDELT EVGFRRTLHPKSTTEYTFSSAPH CTYLKIDHIIASKTLLSKCKRTEI ITNGLSDHSVILELKIKKFTQN CTTTWKLKNLLNDYWVNNEI KAEIKMFFETSENEEDTMYQNL WDTFKPLCRGKFIALNAHKRK QRRSKIDIQTAQLKELEKEQQT NSKASRRQEITKIRAEKVTETR KTLQKINESRSW
11970	42338	A	12044	1	645	
11971	42339	A	12045	3	362	LDQLLDMSYE/QLMQLYSCAQ RRRLNPGLRRKQHSLLK\RLRK AKK/EAPPEKPEVVKTHLRD MIILPEMVGSMVGVYNGKTFN QPEMIGHYLGEFSITYKPVKH/G RPGIGATHSSRFIPLK
11972	42340	A	12046	1	519	
11973	42341	A	12047	2	599	PPRSEDPAKMAEVEHEEGSG PFRKFTLPAAVDLADQLLDIVPT KQFDAAVQVAAQRRRLEPGGL RRKQ\HSPA*KRLRKAKKGGPA PWRKPEVVKTHLRDYDHSYP EMVG\SMVG\YVNGK\TF\NQV GDQGVCGRPCR LGWAGVA*CR RDQLTPSFALGLPQPEMIGHYL GEFSITYKPVKHGRPGIGATHSS RFIPLK
11974	42342	A	12048	8	224	RTASYPRRFPWDHLLICPCQQL LICFLSLWIRLVFTKVSCT*NHN NMFSCVWLLLLSMIFLRFTHIA CIRNI
11975	42343	C	12049	65	163	
11976	42344	A	12050	3	187	
11977	42345	A	12051	3	689	HASDQKEIIIEPFQAVDEVERVP EDYYTG PVYLTEVTTLQQRLLQ PDFQPVCA SLYPRHKHLLIKR SLRCRKCEHNLSKPEFNPTSIKF KIQLVAVNYIPEVRIMSIPNLRY MKESQVLLTLTNPVENLTHVTL LECEE GDPDDINSTAKVVVPPK ELVLAGKDAAA EYDELAEPQD FQDDPDIIAFRKANKVGIFIKVT PQREEGEVTVCFKMKHDF\KNL \AAPISP
11978	42346	A	12052	1	882	
11979	42347	C	12053	152	404	

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11980	42348	A	12054	3	398	LRKIKIDLGKFSDNPDGYIDVLQ GLRQSFDLTWRDIMLLLDQSLT PNEKSAAKTAAREFGDLWV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQLHDPYYAPIQQA V
11981	42349	A	12055	2	286	
11982	42350	C	12056	261	482	
11983	42351	B	12057	1	1133	
11984	42352	A	12058	438	575	NKTRMPSLTTPLOHSTESPSQSS QTREGNKGYPNW*RGSHTVTV C
11985	42353	B	12059	50	309	
11986	42354	A	12060	1	870	
11987	42355	A	12061	148	368	ELSSCSLMSHRAIHHPSEERATT T/NQQSEPGSW*GWVGANRWC HKMSSGSGSLGTEPCGSLACSA WTVTVQAQ
11988	42356	A	12062	405	707	RLSLQTAGCSDVPVFPSAPSGPP SPA*AP*SGSAASPWPPFAPSAA HVAMPAPPRHWPQLSLKMPPW PPDSPVPPGCLA*AEAPPPHCPV HLPASRSALS
11989	42357	A	12063	90	470	KSVHSLPPSFSSLLPWTCNRTLS KPPALPSPSRQPECRRRLHCSG SRHSSCPSSSSSPSFSSSPSSSS SASASPPPPSPSPAPP*LWLQPL FCSQ*QLCHCQELVHLESRLTY PYHSSNQPF
11990	42358	B	12064	1	474	
11991	42359	A	12065	1	383	MEYYAAMKNDEFMSFVGTWM KLETIILSKLSQGQKPNTACSHS WMDPQRRGKRQSLISEAGAN QFPKSVFRFFGLGDSKVGSKWS ATCACEPIHTSEYCGDRVICKTT SSLRGASFAWCSSNGE*WFP SSMSLQRT
11992	42360	A	12066	1	384	MIITGLEDYEMGLRMEGTLEIP GHYQKDKFLAQSTPDLLPKTS LTNPFSINQILAERQIVTFTVYP DTERDRETRNLADLKQIKIDLG KFSDNPDGYIDILRGLRQSFDLT WRDIMLLLNQTLAPN
11993	42361	A	12067	152	238	
11994	42362	A	12068	89	544	
11995	42363	A	12069	62	199	SWKPSFSANYHKDRKPNTACS HS*DPAFLAPSPVP*SRPLRPPQ D

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11996	42364	A	12070	1	655	SVSGLVEKVTFEQRLKGGEGDS TVGSSGNEIFRQWPCWELSNCG SLQGDAGCSCLVVHVTFPAGSL SGDGLPTAQWLQSLVLVLAGGR RVNSTQGHRCHHWGSAEPCV LVKRHHAAQEGLCSFQKTPRS QVPFHLFWDPGHHTLLCSYCPS VGAVGTQPAVQAVSTAV*TAAE GEPLPMSENMRCLVFCPCDSLL RMMVSSFIRVPTKDMNSSFFM
11997	42365	A	12071	1	987	MLVLGYNRKNTTEGTQKQKGT NASDFHFLSQVLEQVVS PKGSK EAQCCVLRHLGCESSESAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLGKERR QREGERRERKREREKRESQR KERKREKKGKKREREKDRSDL KQIKIDLKGFSDTPDGYIDVLQ GLGQPYLTWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQPTGQQA VP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
11998	42366	A	12072	1153	1379	CLASWKEKSLLHCPQRKQRLR GEELEKLKKWKETATQIKRSYC WI*PSKSPHYLTS*KR*WNY**L GNYNSIPAS
11999	42367	A	12073	1	864	
12000	42368	B	12074	8	441	
12001	42369	A	12075	62	332	TDSPHCTDPPSRPTVPASCLKRK CCGSTMP TARPIMPTLMETR*M PISPRVSWAGPRPTSWPALISST LFPRMANHWRD*SRITWFQGG A
12002	42370	A	12076	34	409	TRAAGIRHEGKPEKTGLKRNFT N/DCRKS*TSG*RSTTSSRSRSPS PAPRSRSCSR\RDLPAPPPLSRSG DRPQTAPSCPMWRARLPSCPGS AIPIPRPAWTRSACCGAASTRLR PFGSSTSPQWM
12003	42371	A	12077	1054	1368	
12004	42372	A	12078	298	514	PNWFKHDVSKSESFSNKMWIA KILKA/ARPAPLTQCV/RNSCFL QCRHLSSVSASDLT*DNVKRQF CVSPHTES
12005	42373	A	12079	2	1613	
12006	42374	A	12080	2	106	

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12007	42375	A	12081	42	305	YNTVLPKACLCGSLICWMN*SH SDQNMQVSVERSRLRVLYAC CGLLLCTAYPQHFAHRYVDKIP GYPSRAGTLTGLHPMQVCRCR
12008	42376	A	12082	206	6038	
12009	42377	A	12083	1	4316	MQWEEAEKDPSGSCVFQRPPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLSPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSDN
12010	42378	A	12084	393	991	
12011	42379	A	12085	324	438	
12012	42380	B	12086	528	598	
12013	42381	A	12087	52	574	
12014	42382	A	12088	1235	1366	
12015	42383	A	12089	1	1800	
12016	42384	A	12090	1	513	
12017	42385	A	12091	3	77	
12018	42386	A	12092	1923	2171	GAFCPFTLLHGYQVLQWPGSSL PHKEGPAPALEGGHVYPRWI*A SADSQSTEAGRIGPASTG*RQYP GGEEHACCLPALLHS
12019	42387	A	12093	1	360	
12020	42388	B	12094	21	3636	
12021	42389	A	12095	1	936	
12022	42390	A	12096	1	599	
12023	42391	A	12097	1	248	VGKSSIVCRFVQDHFHDHNISPTI GASFMTKTVLCGN/ELHKFLIW DTAGQER/SRQIPPLDPHENGNN GTIKVEKPTMQASRRCC
12024	42392	A	12098	1426	1572	
12025	42393	A	12099	367	513	
12026	42394	A	12100	31	661	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVCRFVQDHFHDH NISPTIGASFMTKTVPCENDFT KFLIWDTAGQERFYSLAPMY RGSGAAVIVYDFTEAGFHFHPL KKWV\KRLKELGPEINIVMAIA GNKCDLSDIREVPLKGC*RNTA ESIGAIVVETSAKNAINIEVLFQ GMSRPDPHPWTPHENGNGTIK VEKPTMQASRRCC

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12027	42395	A	12101	1	487	MDKFLDTYTLPRNLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAEFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILPKNW KKLL
12028	42396	A	12102	1	1563	
12029	42397	A	12103	1	1449	
12030	42398	A	12104	3	1606	
12031	42399	A	12105	2	402	
12032	42400	A	12106	172	329	
12033	42401	A	12107	1	720	
12034	42402	A	12108	97	206	
12035	42403	B	12109	1	1248	
12036	42404	A	12110	1	1419	
12037	42405	A	12111	1	1387	MDKFLDTYTLPRNLNQEEVESLN RSITGSEIVAIINSLPTKKSPGPD GFTAEFYQRYKEELVLLLLKLF QSIEKEATLPSFYEASIILPKP GRDTTKKENFRPISLMNIDAKIL SKILANQIQQHIKKFVHHDEVG FIPRMQGWFNHKSKNVIQYIN RTKDKNYMIISIDA EKAFDKIQ QLFMLKTLSKLGIDGTYLKIIRA IYDKPTVKIILNGQKLEEFPLKT GTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGILLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI SNVS\KV*GYKINVQKSQAFLY TTNRQTESQIMSELPFTIASKRI KYLGIQFTRDVKDLFKENYKPL LNEIKEDTNKWK NIPCSWVGRI NIVKMAILPKPPLLIPRQTGSGV DLQQTPTDLQLSVLTVRRKINK QKGGHPHQYLIWTSPSSSKTKGRQ LLASNRKLDGE
12038	42406	B	12112	1	711	
12039	42407	A	12113	1694	4489	IYRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARIAKAIRSQKNKS GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYNYLIFDKPEKNEQWGKDSLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLIVRPKTIKT LEENLGITIQDIGMGKDFMSKT PKAMATKAKIDKWDLIKLSF CTAKETTIRVNRQPTKWEKTFA TYSSDKGLISRIYNELKQIYKKK TNNPIKKWAKDM

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12040	42408	A	12114	1	115	
12041	42409	A	12115	58	414	
12042	42410	A	12116	6	389	VMTTGTNSRVEPRVRGRVYKK KMDKKRQEKITEAKSKDKSQM DEEKTD/DEKPKLQVELEQEQ DKFKRLPLEILEFVQEAMKGKI SEDSNHGSAPLSLSSDPGKVN KTPSSEELGGDIPGKEFDTP
12043	42411	B	12117	50	5137	
12044	42412	A	12118	1	1194	
12045	42413	A	12119	1	2559	
12046	42414	A	12120	3	406	
12047	42415	A	12121	119	423	TSSCSSEK FVITHLLKPTSVNSS KSFSFQLCSIG/VQGAAILWRRR GSLVFRIFSFSALVSPHLCGFIYL WSLTMVTYFSLSNNGRPSPCQA AAPQVNLGLLC
12048	42416	A	12122	3	597	ISASASDNVFMVSVPSCSSCF TLRYRLWKSEKPLYYSFVDKP VAYKKREMVVN LQKQFKHTG RVQ/SSNLEKKAPSSFQFNWT EEDTDRTCFHGHSLQGVLEK GQSLT KNSLYWLSTQKF*RCY GHHVPPYEESIYFLSNRFLNLF SFLLRKTSFLAHEEVSLVEK\KL FEEKIQCKERNQDPRKVRTTL
12049	42417	A	12123	1	883	
12050	42418	A	12124	23	362	FAFNMPEPGKIVPAP*KGSKKA VTKAQNKDGEKRMLSRKESYS VYVYKVLKQVHPDTGVSSKG MGIMNSFVDDILERIAGEAFRL AHYNKRSTITSREIQT D V R L L L T REMVK
12051	42419	A	12125	2	405	
12052	42420	A	12126	1	398	LHSAMPEPAKSAPAPKKGSKK AVTKAQKKDGKKRKR SRKESY SIYVYKVLKQVHPDTGISSKAM GIMNSFVNDIFERIAGEASRLAH YNKRSTITLPREIQTAVRLLLP GELAKHAVSEGTKAVTKYTSA K
12053	42421	A	12127	1	401	
12054	42422	B	12128	48	424	
12055	42423	A	12129	3	462	DAWVSGRLTELPSSCFPPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKR SRKESY VYVYKVLKQVHPDTGISSKAM GIMNSFVNDIFE\RIAGEASRLA HYNKRSTITSREIQTAVRLLLP ELAKHAVSEGTKAVTKYTSSK



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12056	42424	A	12130	74	504	FAFNMPEPAKSAPAPK\KGS\KKAVTKAQKKDGKKRK/RSRQGRAYSVVYKVLKQVHPDTWHLLLRPWGIMELLSFNDIFRNGIAGLRVSRLGRI*QQGVSTIHLPGEIHGGLRLACLPGGVWPSKAVFRGAPRPFNQVNTSV
12057	42425	A	12131	53	471	
12058	42426	A	12132	1	241	FKDTC TRMFIAALFTIAKTWNQPKCPTMWHIYTMEYYAAIK/SEFMSFVG TWKLETITLSKL*QGQKTKHRMFSLIGGT
12059	42427	A	12133	1	244	
12060	42428	B	12134	1	2142	
12061	42429	A	12135	1	1962	
12062	42430	A	12136	3	393	IWMKLETIILSKLSQG*KTKHRMFSLTGGNLTMR TLGHRLLPSLPHRLRPCARLHLRCPPWPPSR RRCARSTTPTATPPSTATSRWSS TPPTCTCLWPSTSTGTTWPWRT SSATSCACRTTKWSMPRS
12063	42431	A	12137	2	87	
12064	42432	A	12138	1	270	
12065	42433	C	12139	1	214	
12066	42434	A	12140	1	684	
12067	42435	C	12141	1	333	
12068	42436	A	12142	1	189	
12069	42437	A	12143	215	310	
12070	42438	A	12144	2	91	
12071	42439	C	12145	1	229	
12072	42440	A	12146	1	268	
12073	42441	A	12147	1	278	
12074	42442	A	12148	2	274	WMKLETIILSKLSQRQKTIHHLFSLIALFTIAKKWKPPRYLSVDK WIKKLWY/HTYTM EYYS AFKK EAILPIAIAWMGLKDIMLSEISQTWP
12075	42443	A	12149	2	136	
12076	42444	A	12150	2	95	
12077	42445	A	12151	1	233	
12078	42446	A	12152	377	484	
12079	42447	A	12153	2	91	
12080	42448	A	12154	1	891	
12081	42449	A	12155	1	1194	
12082	42450	A	12156	785	892	
12083	42451	A	12157	191	317	
12084	42452	A	12158	410	520	
12085	42453	A	12159	683	796	
12086	42454	A	12160	830	927	

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12087	42455	A	12161	18	539	PTDP*LGIIYQKEVYKSCYYKDICT/RVCVPAALFTIANTWNQPKCTSMIDWVKKMWHIYTMEYYAAIKTDEFMSFAGTWMKLETIILRKLSQGQKTKHRMYSLIGGNLTMRFTGHSAGSHHTPGPIMRCGAGGGIALGEIPNVNDELMGTANQHGTICIPMQQNCTLCTCTLKLKV
12088	42456	A	12162	1	108	ASTAGVSYYYVAQAGLKLGLSLSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFMYFAGTWMKLETIILSKLSQGQKTKHRMFSL*GVSYYVAQAGLKLGLSLSKCRDYRCEPPCPE
12089	42457	A	12163	1	701	
12090	42458	A	12164	274	435	
12091	42459	A	12165	1	3658	
12092	42460	A	12166	749	856	
12093	42461	A	12167	1	598	
12094	42462	A	12168	538	664	
12095	42463	C	12169	1	873	
12096	42464	B	12170	177	325	
12097	42465	B	12171	1	1245	
12098	42466	A	12172	1	3313	
12099	42467	A	12173	1940	2060	
12100	42468	A	12174	1	1213	
12101	42469	B	12175	155	559	
12102	42470	A	12176	2	321	PAPRGGAYRGRQTSLSGGLHPV*ASWLLCLPKQAWAM/VGRP PQASLLPCSLISDCCASNQRDSVGVPSEPCAGYNLLLCRFLSQSEKHSIRVGAVDCSCSYLAIL
12103	42471	A	12177	1	519	
12104	42472	A	12178	1	477	
12105	42473	A	12179	119	375	KRTQT*AIAGAPPPASLPPCSLISDCCASNE*GSVGIGPSKPGAGYNLLCHLISPSISPTSSPKSDTCPI ADFSNKSPDRSSAGDILLAMQSLGSMIFLILPTREHGKFFHLFVSSFISLSSGL
12106	42474	B	12180	1	363	

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12107	42475	A	12181	1	1309	MAEGEEGTSYMAAGERVVAIALIDGFRPLTLESTFFNSGSCSKLEQHSTYLGDFADFGTTIKQDFRLLGQTSVDRLLQLSQGQAVPEPKQHGIGPKQKYRSTGPNRALRNNAAYLQFLIFGNLEKTKPWGKDSLLIKVFEEAVLWIECFAFIFYDARGVLIVVQVDSCSKLEQHS TLSRAILLIYKGFCFRNHHQTGFSPAGANQGRPLAATLSGPGGEGQSAVARLTGEKKNHPGAQYANRLSPRVGRFINAAGTTGFPTGKRAVSATQLMDFADFGTTIKQDFRLLGQTSVDRLLQLSQGQAVKGNQLLPVSLVKRKTTLAPNTQTASPRALADSLMQLARQVSRLESGHLISDCCASNQPDVGVGPSEPGAGYNLVVRHFLSPSEKHSIRVGVTRFSRCRPSPLPLTQKGNLSLTPCASQLRQCLALLRLR*RAISCCPSHW*KEKPPWRPIRKPPLPARWPIH*CSWHDRFPD/CESGHLISDCCASNQPDVGVGPSEP GAGYNLVVRHFLSPSEKHSIRVGVTRFSRCRPSPLPLTQKGNLSLTPCASQLRQCLALLRLRH
12108	42476	B	12182	1	1335	
12109	42477	A	12183	1	1675	
12110	42478	B	12184	57	1530	
12111	42479	A	12185	1	1419	
12112	42480	A	12186	1	574	RVDDFVRQTRPSAQAALAEKMAANQPPPLMMKHSQTDLVSRLKTRKILGVGGEDDDGEV/HRSPISQALGTEIKFTIREPLGLTVWQFVSAVLFSGIAIMALAFPQDLYDAVFDGAQVTSKTPIRLYGGALLSISLIMWNALYAEKVIRWTLTEACYFGVQFLVVTATLAETGLMSLGIRLTRSSRRGR
12113	42481	B	12187	79	387	
12114	42482	A	12188	1	908	
12115	42483	A	12189	2	70	
12116	42484	A	12190	1	1158	

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12117	42485	A	12191	2	611	FVSVPSVLLGLQFWRSERD/TA RLQSARWRVERGRLKELLSRQ RPRRREEVVVGREVCRTMEV RASLQKIVSNGDEQLEKAMEEI LRDFEKRPSLLVDCQSSSEISD HSFGDIPASQTNKPSLQLILDPS NTEISTPRPSSPGGLPEEDSVLF NKLTYLGCMKVSSPRNEVEAL RAMATMKSSSQYFPVTLYP
12118	42486	A	12192	3	497	
12119	42487	A	12193	1	804	
12120	42488	A	12194	1	1243	MAPVEHV VADAGAFLRHAAL QDIGKNIYTIREVVTEIRDKATR RRLAVLPYELRFKEPLPEYVRL VTEFSKKTGDYPSLSATDIQVL ALTYQLEAEFVGVSHLKQEPQ KVKVSSSIQHPETPLHISGFHLP YKPKPPQETEKGHSACEPENLE FSSFMFWRNPLPNIDHELQELLI DRGEDVPSEEEEEENGFEEDRK DDSDDGGGWITPSNIKQIQQE LEQFADVPEDVRVWLA*PPDFA MQNVLLQMGLHVLAVNCMLI REARSYILRCHGCFKTTSDMSR VFCSHCGNKTLKKVSVTVSDD GTLHMHFSRNPKVLNPRGLRY SLPTKGGKYAINPHLTEDQRF PQLRLSQKARQKTNVFAPDYIA GVSPFVENDISSRSATLQVRDS TLGAGRRRLNPNACRKKFVKK
12121	42489	C	12195	164	350	
12122	42490	A	12196	1	378	
12123	42491	B	12197	265	1539	
12124	42492	A	12198	1	2511	
12125	42493	A	12199	1	1077	
12126	42494	B	12200	38	1451	
12127	42495	A	12201	1	207	
12128	42496	A	12202	1	197	
12129	42497	A	12203	1	216	
12130	42498	A	12204	1	335	
12131	42499	A	12205	1	174	
12132	42500	A	12206	1	1309	
12133	42501	A	12207	1	1266	

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12134	42502	A	12208	1	590	IDRFDAPCGLEEDHEDEFNE EDERAIEMYRRRLAEWKATK LKNKFGEVLEISGKDYVQEVTK AGEGLWVILHLYKQGIPLCALI NQNLISGLARKFPDVKFIKAISTT CIPNYPDRNLPITILVYPG/GDIN G/QFIGPLSVGGMNLTRDELEW KLSSEGAIMTDLEENPKKPIEDV LLSSVRRSGPHEEGQRFRG
12135	42503	A	12209	291	416	SHYDKIHAELSEYDQISPPNSQ PDKENPVLST**SIQRRHMTLTK MNLKIILKYRKPEA*SQRLVSK R*KHSIRGSGINLSFVPTGFQIVP FHLFETSLWL
12136	42504	A	12210	437	773	DYTITGELKTAIQRSKINFCPIH SHSSHNAKSFVI*TVTLLHRHLL *KVSVNKVQSLFIQCGIFSEAGA GVYNYCPPPRQRRQPGDKPRW RWRRGRNNRCSANSHGLQLYA
12137	42505	A	12211	1	1183	
12138	42506	A	12212	1	459	
12139	42507	A	12213	1	513	
12140	42508	A	12214	91	1168	
12141	42509	A	12215	323	429	
12142	42510	A	12216	870	1305	SPGLPHCWQPCRARSRGTDVW NVLVSVGSGSAYKEPAILVGPE NLTLTVHQTAVLECVATGNPRP IVSWSRLGWPPNPTAKEQEQRRA KTESQRKQPRDKARENQPKAA RPKRAAPKSHEAARKTNPPTAS TKRQAAPTNTPKESS
12143	42511	A	12217	1	2695	
12144	42512	A	12218	1	258	
12145	42513	A	12219	1	624	
12146	42514	A	12220	247	425	
12147	42515	A	12221	31	858	LLEIVNSSIQPEKQAGWLSQAV HGAPDGPNNRPMHPETSPGRG HLLAVLLALLGTTWAEVWPPQ LQEQAPMAGALNRKESFLLLSL HNRLRSWWQPPAADMRRLDW SDSLAQLAQARAALCGIPTPSL ASGLWRTLQVGWNMQLLPAG LASFVEVVSLSWFAEGQRYRHA AGE*ARNATCTHYMQLVWATS SQLGCGRHLCSAGQAAIEAFVC AYSPRGNWEVNGKTIVPYKKG AWGSLCTASVSSLLKAWDHAR GLLGGPRETLGKEPTEPWTALK
12148	42516	A	12222	1	1519	
12149	42517	A	12223	1	789	

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12150	42518	A	12224	1	505	ATEDPGVAMGRRPARCYRYCK NKPYPKSRFCRGVPAKIRIFDL GRKKAKVDEFPLCGHMSDEY EQLSSEALEAARICANKYMKVS CGKDGFIHVRVRLHPFHVIRINK MLSCAGAD/RIHISKKWGFTKF NADEFEDMVAEKRLIPDGC GV KYIPSRGPLDKWRALHS
12151	42519	A	12225	135	828	RFWVSPHGPAAPARCYRYCKN KPLPKVLRFCRIGVPAKIRIFD PGA EK RQKVE*VFRFCGHMVS DE\YNQLSS\*ALEAARNLCPIS TMVKS\CGKDGFIHVRVRLHPF HVIPHQTRCCSCAGADRLQTG MRG\AFGKPGQTVARVHIGQVI MSIRTKLQNKEHV\IDALRRAK \FKFPGRQ\KIHISKKWGFTKFN ADEFEDMVAEKRLIPDGC GV YIPSRGPLDKWRALHS
12152	42520	A	12226	2	367	
12153	42521	A	12227	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12154	42522	A	12228	1	714	
12155	42523	A	12229	122	939	YPGKQGLEWTSNKIQQTCS*GS SLLEGKLTNRKDIHTKTPSVRH/ RSSKAKERVSVIEDQMNETKRE EMFREKRVKRNEQSLQEIWEY VKRPNLRLIGVPESDGDNGTKL ENTLQDIIQQYFPNLRQANIQI QEIQRMPQRCSSRAAPRHIIVR FTKAEMKEKMLRAARGKGRV THKGKPIRLKVDVLAETLQARR EWGPIFNILKEKNFQPRISFPAK LSFISKGEIKSFTDKEMLRDFVT TRPALQELLKEALNMERNRY QPQQKHAKL

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12156	42524	A	12230	1	1043	MGDFLHSTDNRNYLIKFWAKLS AKKTPANSSSPLGDHQPCHTK NLQIPEKWLIGLLLPLKADLLK EDAGTHCKEAKNLDERLDEWL TRINSVEKFLNDLMELKTMAQE LHYACTSFSSQFDQLEERVSVIE NQMSEMKREEKFREKRVKRNE QSLQKIWDYVKRPNRLTGVP SDWENGTKLENSLQDIIQENFP NLAQANIHQEIQRMPQRYSS RRATPRHLIVRFTKFEMTEK RAAREKGQVTHKGKPIRTADI SAETLQARREWGPIFNILKEKN FQPRISYPAKLSFISEGEIKSFTD KQMLRDFVTTRPTLQELLKEAL /NMERNNQYQPLQKHAKL
12157	42525	B	12231	1	1275	
12158	42526	A	12232	1	1584	
12159	42527	B	12233	1	1023	
12160	42528	A	12234	1	2052	
12161	42529	A	12235	5160	6183	VSKHPQASAGDTQTNRVWSGP PANSDRPAAEQPDCKEN*QTE RTSNQNPICMSPSSKTKEAKNL DKRLDEWLTRINSIEKTLNDLM ELNTMARKLRDACTSFSSQFDQ VEERVSVIDQMNEMKREEKF REKRIKRNKQSLQEIWDCVKRP NLRIGVPESDGENGTKLENTL QDIIQENFPNLAQVNIQIQEIQ RTPQRYSSRRGTPRHIVRFTKV EIKEILRAAREKGRVTHKGKPI RLTAVLLAETLQARREWGPIFN ILKEKNFQPRVSYPALSFISEG EVKSFTDKQMLRDFVTTRPAL QELLKEALNMERNNRYQLLQK HATLSRPSMLG
12162	42530	A	12236	1	975	
12163	42531	A	12237	3	1186	
12164	42532	A	12238	1	906	
12165	42533	A	12239	1	1882	
12166	42534	A	12240	1	1394	

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12167	42535	A	12241	1	4935	MGP GARLAALLAVLALGTGDP ERAAARGDTFSALTSVARALAP ERLLGLLRRYL RGE EARLRDL TRCNDETITYLLDKRLTVLTAA NIPYSSPENGAKRRRQDAFPPIH YNTQDALLQYLSGVGWGAPPA AQAHRDAPFVDSIAQVLLRTSG GSAEASGWSLRSRWAVGGATG SWVLSKGDRA SLGERVVTGWA TLNVGRSFAYCLTTCVQPPLDV GPRKEHAPRPPSLSPTSTRQRGQ SERSQDANGRRKQKT
12168	42536	B	12242	88	1014	
12169	42537	A	12243	686	1920	IKPQRWGKKQNRKTGNSKKQS ASPPPKERSSSPATEQSWTENDF DELREEGFRRSVITNFSELKEHV VTHRKEAKNLEKK\LDEWITRI TNAEKSLKDL MELKTTAQELR NECTNLSNRCDQLEETVSAME DQIN\EMNEMKQEGKFREKRIK RNEQSFQ\EIGDYVKRPNLH\L GVPESDGQNGTKLENTLQDIIQ ENFPNLARQANIQIEN\QRT PQ RYSLRRATPRHIIVRFTKVEMK EK\MLSAAREKGR\VTHKGKPIR LTTADLSAETLQAQKTEWG\PIF NIL\KEKNF\QPRIS\YPAK\LSFIS EGEIKYFTDKQMLRDFCHHQG LPLKELLKEEALKHWKGTTTRY QPLAKTLPKYRSTRQKVNKDT QELNSALHQADLIDIYRTLHTK STEYTFQHHHTPIPKLTT
12170	42538	A	12244	1	633	
12171	42539	A	12245	3	109	
12172	42540	A	12246	2	575	
12173	42541	A	12247	1	237	
12174	42542	A	12248	1	1065	
12175	42543	A	12249	2	338	
12176	42544	A	12250	1	1319	
12177	42545	A	12251	1	744	MQKALCAAPDLGTFVTVLTPPP GAQIGSRRRERSKVPIYVRQCVE EIERRGMEEVGIYHVSGR\VA DIQALKA AFDVN\NRTMHSSWE ESDELLKARDDPHSGQH SRDG ALAKAGMADKKDMSVMMSET DMNAIAGTLKLYFRELPEPLFT DEFYPSFAEGIDRLERVAEKEA VNKMSLHNLATVFGPTLLRPSE KESKLPANPSQPITMTDSRSLEV MSQVEVLLYFLRLEAIPALDSK RQSILFSTDV



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12178	42546	A	12252	1	507	
12179	42547	A	12253	1378	4280	STPMAVAGPLGRPWSTSPTRAS TSGASWKGRARARSCAARAPL SRRSALPGPAGTPPGVLRIAEA AIPRTAAPMRTSPPARRTSPLAS PAACPQAPPPTACSGTKAALPR RTRNSPSTAAVPPRRSAISGTGT ARLSCPRPPSWASARPGRS GPT MTRAPSMETQMARSEHHLDTA ALQTGQRSSAGTKMGCPTLMT RPPHRPTSAARAGAAGMRWSR EP*SPLK/RSELDLEKGLEMRK WVLSGILASEETYL
12180	42548	A	12254	1	1109	MRTPYKTSPMRMLYMTSLMTP TRHANEDAVDDIAYKDTVQDI TSEDAVYDIANEDVVYDIANED ALQDIANEVAVYDIANEDIVYD IANEDALYDITNEDAVYNIANE DAVYGIANEDAVYEFANKHAV YDIANEDTVQDICKKEDAANK CYFPGFFPIRCRHEHLPVCIIDVI CSLIKCRHEHLPSSLIQDRLGA QASRRERSKVPYIVRQCVEEIER RGMEEVGIYRMSGVAADIQAL KAAFNVSECRPAQDGMEVWA VVSAMRSQSAPRPRHVTSFSVS FLHLSGSSRRPLHFRALSNNKD VSVMMSEMDVNIAIGSLKLYF RELPEPLFTDEFYPNFAEGIGEH WRPWPHGRLLHVHCCPQRL
12181	42549	A	12255	1351	4308	WKGRARARSCAARAPLSRRSA LPGPAGTPPGVLRIAEAAIPRT AAPMRTSPPARRTSPLASPAAC PQAPPPTACSGTKAALPRRTRN SPSTAAVPPRRSAISGTGTARLS CPRPPSWASARPGRS GPTMARA PSMETQMARSEHHLDTAALQT GQRSSAGTKMGCPTLMTRPPH RPTSAARAGAAGMRWSREPWS PLK/RSELDLEKGLEMRKWVLS GILASEETYLHLEALLPMKPL KAAATTSQPVLT SQ
12182	42550	B	12256	1	1017	
12183	42551	A	12257	2310	2834	EEKYNMQTRLRRAEDVFPPVIG VAAHKG GGVYKTSVSVHLAQDL ALKGLRVLLVEGNDPQGTASM YHG WVPDLHIHAEDTLLPFYL MLR/LAIETVAHDYDVIVIDSAP NLGIGTINVVCAADV LIVPTPAE LFDYTSALQFFDMLRDLLKNV DLKGFEPDVRILLTKYSNSNGW

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12184	42552	A	12258	106	108	NFLFVLRRQLWVGGLCW*AAE LNKVCL
12185	42553	A	12259	1	901	
12186	42554	A	12260	23	482	KPRELGPISPVWLPPDRLPERPQ RRRPSGVDPGSWLWGSWSCGSGT CSALMSCSCGSTPLLSLALKVT PGGVLGAPSGSEDGS*PNRKAC GSEMEICLTTRGVWGPEVALG VGGGLQQSCRAPCGGLPKLLRS WSQSSLSPNSPGRGASSGEAA
12187	42555	A	12261	1	1938	
12188	42556	A	12262	1	2235	
12189	42557	A	12263	43	1827	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGRNVVRRRL AVVRSGSRSLSTADMTKGLVL GIYSKEKEDDVPQFTSAGENFD KLLAGKLRETLNISGPPLKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAGCRQIQDLELSSVEVDPCG DAQAAAEAGAVLGLYEYDDLK QKKKMAVSAKLYGSGDQEA WQKGVLFASGQNLARQLMETPA NEMTPTRFAEIEKNLKSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKGSPNANE PPLVFVGKGITFDSGGISIKASA NMDLMRADMGGAATCSAIVS AAKLNLPINIIGLAPLCENMP SGKANKPGDVVRAKNGKTIQVDN TDA\EGRLILADALCYAHTFNP KVILNAATLTGAMDVALGSGA TGVFTNSSWLWNKLFEASNET GDRV*RMPLFDHYTRQ\VVDC QLAD\VNNIGKYRSAG\ACTAA AFVKEFVTHRKWAHLDIAGVM TNKDEV PQSTGKA*LGRPTRTL NEFLALRFSQDNCLVQILKNVFH SVLNWTVELKKVFE
12190	42558	A	12264	1	405	GIRSAEVGKHLAHLISRQQGR RPVTLIGFSLGARVIYFCLQEM AQEKDCQGIIEDVILLGAPVEGE AKHWSLSGRVVSGRINGYCR GDWLLSFVYRTSSVQLRVAGL QPVLLQDRRVENVDLTSVVSG
12191	42559	A	12265	1	1072	
12192	42560	A	12266	105	514	

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12193	42561	A	12267	44	872	NARPWVRGLLIEFRRRGSLCRE RAREMEMGRRIHLELRNRTPSD VKELVLDNSRSNEGKLEGLTDE FEELEFLSTINVGLTSIANLPKL NKLKKLELSDNRVSGGLEVL EKCPNLPHLI*GGNKIKDLSTIE PLEKLENLKSLLDFNCEVTNLN DYRENVFKLLPQLTYLDGYDR DDKEAPDSDAEGYVEGLDDEE EDEDEEEYDEDAQVVEDEEDE DEEEEGEEEDVSGEEEEEDEKGY NDGEVDDEEDEEELGEEERGQ KRKREPEDEGEDDD
12194	42562	A	12268	1	388	KRGAAMDGRVQLIKALLALPIR PATRRWRNPIFPETFDGDTDR LPEFIEQTGSYMFVDENTFSSDA LKTALPQSLPSIAHRQTAAPS DLDSPPRYLGWPQSLSDSDSDS WPPPKGSVTFSETYFLPTP
12195	42563	A	12269	1	127	
12196	42564	A	12270	5	434	ISLRYLDGLAGPTHASAAATEAS DRSEDLRWT/VCAQLIQALLAL PIRPATRRWRNPIFPETFDGDT DRLPEFIVQTC SYM\VDENTFS SDALKVTFILITRLTGPAL\QWVI PYIKKESPLLNDYRGFLAEMKR VFGWED\DEDF
12197	42565	A	12271	515	1137	
12198	42566	A	12272	1	762	
12199	42567	A	12273	1	468	
12200	42568	A	12274	2716	3411	KREEETKKKSKREMEVVKKKQ CTYSFKSQGKFLSTHARQFSIGS QPISASQTVVEIMKSILTLQSQI\ NSLAAVTLQNR*GLDLLTAEKG GLCTFLGEECCFYTNQSGIA*D ATQRLQEKASEIRRLSNSYTNL WSWATWLLPFLGPVAAILLLL AFGPRIFNLLVKFVWSRIEAIKL QMV LQIEPQMSSTN NFYRGPLD *PAGTSPGLESSLKDTTTAKPL LRPYAGSS
12201	42569	A	12275	8312	9221	
12202	42570	A	12276	74	471	
12203	42571	A	12277	4043	4159	LFCQSGFHSLLPSTATCSTIR* VATSRLRPVFTCRRS
12204	42572	A	12278	1	1332	
12205	42573	B	12279	29	1316	
12206	42574	A	12280	1	580	
12207	42575	A	12281	2	710	
12208	42576	A	12282	1	1559	
12209	42577	A	12283	1179	1490	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12210	42578	A	12284	2	313	
12211	42579	A	12285	599	743	GALART*PPQQRWVSCPR/GVP/ GAL*REFTMFLSLQAENSIDFVS RELCAHSIRKLQAHVLLIK*VFI K
12212	42580	A	12286	208	398	
12213	42581	A	12287	716	1069	
12214	42582	C	12288	326	577	
12215	42583	A	12289	188	590	
12216	42584	A	12290	860	1121	VPFLTSWVNVGFKSSALHSSAL LQFWLTLWE*LPAWARCCCL PNGSFWGPRSSRLDVAWERPV APGWREVSPLLSELWTAASGP YG
12217	42585	B	12291	1	1614	
12218	42586	B	12292	1	1080	
12219	42587	A	12293	3	219	
12220	42588	A	12294	890	1094	VESGTHLGQYKIYFGFLYQKKF SLQSHGYILFGCPQYW/ITSTDC PSIPCMWYSRTL*VTWSKKQVT SE
12221	42589	C	12295	1	3912	
12222	42590	A	12296	881	1151	
12223	42591	A	12297	1	1323	
12224	42592	A	12298	1817	2284	VWDGSILYQKLGALDGLSS*VI PLASSLQSLQYPLPSSFIQRILNT YSVKGLRSWTVNEDRVDAVSS GGIWLQVEASLVLY*MLYFSIIT LLILGLVHVNFKILDSSSELITD KLCGGLGFTLYTGSKLI*SDVTF PRAFSASTQTSMLTKYTVE
12225	42593	A	12299	1	1109	
12226	42594	A	12300	1	367	
12227	42595	A	12301	1	531	
12228	42596	C	12302	1371	1746	
12229	42597	A	12303	1	645	
12230	42598	C	12304	387	680	
12231	42599	A	12305	655	2498	
12232	42600	A	12306	1	528	ENLGNTIQDTGMGKDFMTETP KAMTTKAKIDKRDLIKLSFCT AKETTIRVNRQPTWEKIFAVY PSDKGPISRIYKQLKQIYKKSN NPIKKWAKNRNRHFSKEDIYV AKKHMEKSSSSLVIRKMHKTT VGYHLMVPVMAIHKSGNNRC WRGCGE\C*WEGQLVQPLWKT VWQ
12233	42601	A	12307	1	1359	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12234	42602	A	12308	1968	2648	TQTNLQEKKNQLHQKVGKGYE QTLLKRRHLCSQQTHMQPTDT WKNAAHHQLAIREMQIKTTMRY HLTPLRMAIHKKSGNNSCWRGC GEIGTLLHCWWDCCLVQPLWK TVWRFLKDLESEIPFDLAIPLLCI YPKDYTSFCYKDTCTCMFIAAL FTIAKTWN*PKCSSVIDWIKKM WHIY/TTMEYYGAIKRNKIMSF AGTWMKLDAILSKLTQKQKT KLRMFLISRS
12235	42603	A	12309	1	403	
12236	42604	A	12310	3	264	FFYAHIMFIAALFTIAKTWNQS KCTSMIDWIKK\MWHIHTMEY YAAIKR\RGFMSFTRTWMKLEA IILSKLTQEQKTK\HHMFSLIRGS
12237	42605	A	12311	79	432	
12238	42606	A	12312	1	933	
12239	42607	A	12313	70	675	
12240	42608	A	12314	1	339	
12241	42609	A	12315	3	422	
12242	42610	A	12316	1	471	
12243	42611	A	12317	1	963	
12244	42612	A	12318	375	542	ENDKARRSDTPSML*WVEGMK *SVKAPHTLHLASDYVLEPWG GESATFIPASWDC
12245	42613	C	12319	1	2148	
12246	42614	A	12320	1	1881	
12247	42615	B	12321	1	1074	
12248	42616	C	12322	143	439	
12249	42617	C	12323	123	362	
12250	42618	A	12324	474	603	NHKNPRRKPRQYHSGHRHGQG LHV*NTKNNGNKSQNGQMGSN
12251	42619	A	12325	5169	5756	CPSLPPPHGKPAAACPRSPPGGC CTPRSARTVPRGLSENSQTKCH SADLPPEGPRVFWTPPGTGAAP APPAPAPGPARGPARRCHA WPP QRRSSGAGRSPPPRHFAEFLKM VAFLRILILRAVSLRLSLDLEIS* G*RP*GPSWGGPPQSTPSAASA ASKTSSPRRWSTPAWAFLARA HPRWVAPSTAAQCTAAP

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12252	42620	A	12326	21	98	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMRDSCPLDCKVY VGNLGNNGNKTELERAFGYG PLRSVWVARNPPGFAFVEFEDP RDAADAVRELDGRTL\CG\CRV RV\ELVRMGEK\RSRNRGPPPS\ WGRPRDDYRR\RSPPPR\RRSP R\RRSFS\RSRSRSLS*ERVGWC WAGGKREDSSERVLDLRRIF
12253	42621	A	12327	919	1043	
12254	42622	A	12328	460	657	CFSPGMWQKTHSRKHSPGAICP INPVGECLVRKIKQLD*ITWINA I*LPLRDGLFYFLNFPFCCRG
12255	42623	A	12329	1	2235	
12256	42624	A	12330	1	255	
12257	42625	A	12331	2	429	CRADLNSRIDDFVPNPSVAVSG ASYAVAAVTMAHYKAADSKR EQFRKYFEK\SGVLDTLT\KVLV ALYEEPEKLNALDFLKHHLG AATP\ENPEIELLRLELAEMKEK YEAIVEENKKLAKLAQYEP QEEKRAELGFFSV
12258	42626	A	12332	670	860	
12259	42627	A	12333	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFFYSLEMP
12260	42628	A	12334	1	2034	
12261	42629	A	12335	1	324	
12262	42630	A	12336	2	694	FGTRGKAAMAFSVYVVNKAG GLIYQLDSYAPRAEAEKTFSYP LDLLLKLHDERVLVAFGQRDGI \RVGHAVLAINGMDVNGRYTA DGKEVLEYLGNPANYPVSIRFG RPRL\TSNEKLMLASMFHSLFAI G\SQLSPE\QGSSGIEMLETDTFK LHC\YQTLTGIF\VVV\ADPR\Q AGIDSLLRKIYEIYSDFALKNP \YSLEMP\IRCELFQNLKLALEV AEKAGTFGPGS
12263	42631	A	12337	2	1658	

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12264	42632	A	12338	3	997	VQKPNRQWRLVQDLRIINEAV VPLYQAVRNPHYTLSSQIPEETG WFTVLDLKDALFCIAVHPDSQF LLAFEDPLNPTSQLTWTVLPQG FRDSPHLFGQALAAQDLSQFSYL DTLVLRVDDLLLAAPSETLCH QATQVLLNFLATCGYKVSCLK AQICSQQVKYLGLKLSKGTRAL SEERIQPILAYPHPKTRKQLRGL LGITGFCQIWIPRYSEIARPLHTL IKKTQKANTHLVRWTPAEAAA FQVLKKALTQAPVLSLPTGQDF SLYVTEKTGIALGVLTQHGYE ERNS*LPTEYLSNIRKPLGDYY WLYRNLKRWQSYTARVIRKER
12265	42633	A	12339	3	421	-
12266	42634	A	12340	3	4804	KRLNIQKTLLEVAFSEAVWMQ PSVLLDDLDLIAGLPVPEHE HSPDAVQSQRALAHALNDMIKE FISMGSVALIATSQSQQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDCINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
12267	42635	A	12341	1	2223	
12268	42636	A	12342	1	3864	MQWEEAEKDPSGSCVFQRPPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLPAPPYVL PGPGKIKQAGNNPSLTSYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSDN

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12269	42637	A	12343	204	963	DCACTFHCRSATKIVKDLKAQ GLVKPCNSPCSTPILGVQKPNG QWRLVQDLRIIDEVVVYVDDL LLAARSKTLCHQATQALLNFLI TCDYKVSKPKAQLCSQKVLYL GLKLSKGTRVLSEERIQPIPAYP HPKTPKQLRGFLGITGFCRIWIP RYSEIARPLYTLIKKTQKADTH LVEWTPEAEVAFQALKEALTQ APVLSLPMGQDVPLYVTEKTGI ALGVLGVLTQVRG/LSLQPMAY LSKEMDVVAKGWPH
12270	42638	A	12344	1	1178	MPESPTPLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFPYQRQYPLRPEAQQGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPAPNPYTLTSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSQKQAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCSNLRHSRGPSRG SLD*SQQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKKGL IRIYMLPLILSAPYDHLH
12271	42639	A	12345	1	841	
12272	42640	A	12346	3	1428	
12273	42641	A	12347	2	268	
12274	42642	A	12348	1	897	
12275	42643	B	12349	1	1650	
12276	42644	A	12350	232	1002	TPGSTVHAPEADQGLQKIVKDL KAQGLVKPCNSPCSTPILGVQK PNGQWRLVQDLRIIDEVVVYV DDLILLAARSKTLCHQATQALL NFLITCDYKVSKPKAQLCSQKV LYLGLKLSKGTRVLSEERIQPI AYPHPKTPKQLRGFLGITGFCRI WIPRYSEIARPLYTLIKKTQKAD THLVEWTPEAEVAFQALKEAL TQAPVLSLPMGQDVPLYVTEK TGIALGVLTQVRG/LSLQP MAYLSKEMDVVAKGWPH
12277	42645	A	12351	1	2217	



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12278	42646	A	12352	1	6530	MWGSDRLAGAGGGGA AVTVA FTNARD CFLHLP RRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFS DQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAI F PVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADAEYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFS FQSEKKQETSWG LTEINAFKNMQSKVVPL
12279	42647	A	12353	1734	4349	MPNRACFQCGLQGHFKKDCPS RKPQVCLTIESQEVNCLLDAGA AFSVLLSCPGQLSSRSVTIRGVL GQPVTRYFFQPLSCDWGALPFS HAFLIMPESLTPLLEILVKAG AIIHLNIGEGTPICRLLFEEGISPE VWATEGQYQAKNAHFVQVK LKDSTSPYQRQYPLRPEAQQR LQKIVKDLKAQGLVKPYSSPCN TPILGVQKPKRQWRLVQDLRII NEAVFPLYPAIPSPYTLLSQIPEE AEWFTVLDLKD AFFCIPVHPDS QFLFAFEDPSNPTSQLTWTVLP QGFRDSPHLFGQALAQDLSQFS YLDTPVLQCMDLLLAARSET LCHQATQALLNFLTTCGYKVS KPKAQLCSQQVKCLGLKLSKV TRALSEERIQPILAYPYPKTLKQ LRGFLGITGFCRIWIPRYGKIAR PLYTLIKETQKANTHLVRWTPE AEA AFHALKKALMQAPVLSLL TGQDFSSYVTKNKQTKKKKT* IALRVLALV*GTS LQPVAYL/SK EIDVVAKGQPHCLRVVAVAV LVSEAVKIIQGRNLTVWTSHDV NGILTAKGDLWLS DNHLLKYQ ALLLEGPMRLRLCTCAALNLDTF LPHNEEKIEHNCCQVIAQTYAT RGDHLEVPLTDPNP NLYTDGRS FVEKGLQKVG YAVVSDNGILES NPLTPGTSAQLAKLTRALELGE GKRVNIYTDSKYAYLVLHAHA
12280	42648	A	12354	5	138	
12281	42649	A	12355	1	909	
12282	42650	A	12356	3	245	
12283	42651	A	12357	1	1080	

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12284	42652	A	12358	3	955	VPRKSVHSGDAEYHKVLKEEA SDSRENKVGTTWLQILSGSFAS RVTEHITQPLQESVSLWISSEQN IPPKFMGRNLNKLKATYKRKYS AAKSKVEKKKKKEKVFATVTKP VG\GDKNGGT\RVVQTR\KLPR YHPTEDVPRKIVEPPQKNLFSQ HVRKTAKTALPPGTILILTG\RH RGK\RVVFLK\QLASGLIL\VTAP LVLNRVPLRRTHQKFVIATSTKI DISNVKIP\KKKDKTPLLTDAYL \KKKKLRKPR\HPRKGEIFDTVK RGNMRITE\QRTIDQKAVDSQIL PKIKAIPQA/LQGYLRILCLL*RN GIYPHKLVF
12285	42653	A	12359	1	555	
12286	42654	A	12360	1	300	
12287	42655	A	12361	1	588	
12288	42656	A	12362	1	264	
12289	42657	A	12363	1	870	
12290	42658	C	12364	239	400	
12291	42659	A	12365	9	98	SWKPSFSAN*HRNRKPNTTCSH SQVGVDL
12292	42660	A	12366	9	81	
12293	42661	A	12367	3	169	
12294	42662	A	12368	134	481	GCCGGTIKNSFSFPPLPNWPRFV MFPSLCVLIVETCETWICTLIVQ LPLMSENMRCLIFCSCVSLLRM MVSSFVHVHDHKVKSHSRPS/G NLRKSKEASPSPKTSKVGKLTQV PSVCG
12295	42663	A	12369	41	388	SYGQMMKCQPFTFSPGYGAG VFSSDKIGQMTFMERT*RMSCK EAAQDHTAREKEKVELKFPSLP FRRKELL*PCTWLGSPISLVTLD FPWPQGSGRLSMPVLWTCLIPG SLEIG
12296	42664	B	12370	1	909	
12297	42665	C	12371	295	2025	
12298	42666	A	12372	14	260	
12299	42667	A	12373	1	142	TCTCVFIAALFTIAKTWN*SKCP SMRDWIKKNVAHTHHGILCSH KKE
12300	42668	A	12374	1	395	

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12301	42669	A	12375	2	976	REHLAEGMAVGTASADLNISACWLRREQQISQHSARALLRDRLPPQENSSWHPAGAPLGRNFQRKEQAAIFAVLQPPLVIPRKTGSGVDLEQTPADLQKRGLTVTRKTNKQKAIASSTERTPTQKPPFKSHQHQRPNVDKSAKMRKNQSKKAENSKNQNTSSPPKDHNSSPAREQNWMEN\EFDELTEVGFRRWVITNSSELKKHVL\TQCKEAKNLEKRDMDEAGNHHSQQ\TNTGTENQTPHVLTHKWELNNENTRTRYKKHGAAICLASGIYHSVDLPFWGLDLPFWDLEDGSGSTILGSGGQWPSSHSSTRQCTSVDSVWGL
12302	42670	B	12376	1	111	
12303	42671	A	12377	34	346	
12304	42672	A	12378	1	585	
12305	42673	A	12379	3	14703	
12306	42674	A	12380	1	636	
12307	42675	A	12381	1	1626	
12308	42676	A	12382	1	3246	
12309	42677	C	12383	62	202	
12310	42678	A	12384	1	286	
12311	42679	A	12386	1	1176	
12312	42680	C	12387	1	942	
12313	42681	A	12388	785	892	
12314	42682	A	12389	2	91	
12315	42683	A	12390	1	708	
12316	42684	A	12391	3	96	TWMKLETIILSKL*QRQKTKHRMFLIGGN
12317	42685	B	12392	1	1954	
12318	42686	A	12393	1550	1830	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKKMW HIYTMEYYAAIK/SDEFMCFAW TWMKLETIILSKLSQEHTKHH MFSLTSGS
12319	42687	A	12394	3	553	
12320	42688	A	12395	1	1428	
12321	42689	A	12396	642	753	
12322	42690	B	12397	1	759	
12323	42691	B	12398	1	900	
12324	42692	A	12399	623	775	
12325	42693	A	12400	992	1156	
12326	42694	A	12401	86	349	

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12327	42695	A	12402	1	2521	MNIDAKILNKKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NIVQHINRTNDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTRQGCPLSPLFNIV LEVLARAIRQEKEIKGIQLRKEE IKLSLFADDMIVHLENPIVSAQN LLKLIDNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SERIKYLGIIQLTRDVKDLFKEN YKPLLNDIKEDTNKWKNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKGARIAKSILYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPDKNKKWGND LFNKWCWENWLAICRKLKLD FLIPYTKINSRWIKDLNVRPKTI KTLLEENLGNTIQDIAMGKDFMS KTPKAMATKAKIDKWDLINLK SFCTAKETTIRVNRQPIWEKIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMHI KTTMRHHLTSVRMAIHKKLG DWCWRGCGEIGRLLHCWWDC KL VQPLWKS VWRFLRDLELET PFDPASPLLGIIYQKEYKSCYYK DICT/RVCVPAALFTIANTWNQP
12328	42696	B	12403	80	5612	
12329	42697	B	12404	68	505	
12330	42698	A	12405	1	471	
12331	42699	A	12406	194	430	IAIMRLLLQISIIHLSSCLREVKSM QAYRKALRKLKLADV KRYQKS LVVQKRS*ER*SLVLILILPARTF QSYLAPIC
12332	42700	A	12407	1	546	
12333	42701	A	12408	2	418	
12334	42702	A	12409	302	746	ETSHQVMDRSNPVKPALDYFS NRLVNYQISVKCSNQFKLEVCL LNAENKVVDNQAGTQGGQLKV LGANLWWPYLMHEHPAYLYS WEDGDCFTP KALDPLPACDLC DQL\HLRSRQGGSVCGCDPCEQ LLLL\VSQ LQAPAI DSAAAGRPV
12335	42703	A	12410	83	552	
12336	42704	A	12411	1	459	
12337	42705	A	12412	34	588	

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12338	42706	A	12413	1	466	
12339	42707	A	12414	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGQ
12340	42708	A	12415	497	847	
12341	42709	A	12416	1	337	MGVVPEELFLEELNLSGLKWD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQHPEFAPP SHGD
12342	42710	A	12417	716	961	
12343	42711	A	12418	1	1218	
12344	42712	A	12419	1	1104	
12345	42713	A	12420	548	1078	
12346	42714	B	12421	83	345	
12347	42715	A	12422	1	681	
12348	42716	A	12423	1	1431	
12349	42717	A	12424	566	871	
12350	42718	A	12425	145	980	
12351	42719	A	12426	2	702	
12352	42720	B	12427	1	1156	
12353	42721	A	12428	188	584	
12354	42722	A	12429	1	1194	

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12355	42723	A	12430	170	1855	LLEGKLTNRKDIPHQNPICTSPS SKTKGILPISEPPSNRIFACWGK PAWTACCN/FSQGGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLESGQD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADSL MQLARQVSRLESGQINHTPNSF HIGAGGSWCLSESPCVVLNYK YPLVCGYTDGNAEVSKFGNFFL DLSRTRCLAEGNYTSGDNHTLR DPHYVEDKGHKYLVFEANTGT ENGYQGEESLFNKAYYGGGTN FFRKESQKLQSAKKRDAELA NGALGIIELNNDYTLKKVMKPL ITSNTVTDEIERANVFKMNGKW YLFTDSRGSKMTIDGINSNDIY MLGYVSNLTGPYKPLNKTGL VLQMGLDPNDVTFTYSHFAPV QAKGNNVVITSYMTNRGFFED KKATFAPSFLMNIKGNKTSVVK NSIRREGFCRFRNHHQTGFSPA GANQRGPLAATLSGPGGEGQS AVARLTGEKKNHPGAQYANRL SPRVGRFINAAGTTGFPTGKRA GFCRFRNHHQTGFSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFPTGKRAV
12356	42724	A	12431	851	2237	
12357	42725	A	12432	2	2346	
12358	42726	B	12433	329	479	
12359	42727	B	12434	656	2404	
12360	42728	B	12435	486	834	
12361	42729	A	12436	1	693	
12362	42730	A	12437	1	114	
12363	42731	A	12438	152	391	AGGWALPSLGLPSWTSRCPWR RGSAGLLLEASVPVQQ*PKLLD RLSRRWPGEHPRPARVRSCM ALGPRRLGVLCQEPS
12364	42732	A	12439	1	1707	
12365	42733	A	12440	1	897	
12366	42734	A	12441	36	420	
12367	42735	A	12442	2	217	
12368	42736	A	12443	1	903	
12369	42737	A	12444	1	1626	
12370	42738	B	12445	107	757	

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12371	42739	A	12446	1	1655	MGTVPRSAGQETWVLCEHIIGG ERSFTEYS LCHRIESSTSSIKLEL GGNNVEPLESSRVFDSTVQNEE ADAVSTGEEGVTHEGTQGGKV IPQMHMGSG LQPKSFSQNR SQV NNDMIVTDNNGAVKFPQLCKF CDVRFSTCDNQKSCMSNCSITSI CEKPQEV CVA VCWMSEEICTN VMYSPLPCKFLHLSPIEVLPIRS PVNQSGRCKIRHIGSN NRLQRS TCQNTGWESAHVMKTPGFREY NTSNPDLLL VIFQVTGISLLPPL GVAISVIII FICYRVNRQQKLSS TWETGKTRKLM EFSEHCAIILE DDRSDISSTCANNINHNTPELLI ELDTLVGKGRFAEVYKAKLKQ NTSEQF*DSGQFKILFPIEYAS WKTEKDIFSDINLKHENILQFLT AEERKTEL GKQYWLITAFHAK GNLQEYLTRHVISWEDLRKLGS SLARGIAHLHSDHTPCGRPKMP IVHRDLKSSN ILVKNDLTCCLC DFGLSLRLDPTLSVDDLANSQG CYEVCSSGRFLVTIFKGNRLRE RTEKNTRITPRDWVYEWLW
12372	42740	A	12447	1555	3277	RAAGSAMGRGLLRGLWPLHIV LWTRIASTIPPHVQKSVNNDMI VTDNNGAVKFPQLCKFC DVRF STCDNQKSCMSNCSITSICEKPQ EVCVA VWRKNDENITLETVCH DPKLPYHDFILED AASPKCIMK EKKKPGETFFMCSCSSDECNDN IIFSEEYNTSNPDLLL VIFQVTGI SLLPPLGVAISVIII FICYRVNRQ QKLSSTWETGKTRKLM EFSEH CAIILED DRSDISSTCANNINH TELLPIELDTLVGKGRFAEVYK AKLKQNTSEQFETVA VKIFPYE EYASWKTEKDIFSDINLKHENIL QFLTAEERKTEL GKQYWLITAF HAKGNLQEYLTRHVISWEDLR KLGSSLARGIAHLHSDHTPCGR PKMPIVHRDLNSSN ILVKNDLT CCLCDFGLSLRLDPTLSVDDLA NSGQVGTARYMAPEVLES RMN LENAESFKHTDVYSMALVLWE MTSRCNALGEVKDYEPFGSK VREHPCVESMKDNVLRDRGRP EIPSWL NHQGIQMV CETLTEC CDHDPYARLTAQCVAERFSELE HLDRLSGRSCSEEKIPEDGSLNT

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12373	42741	A	12448	3	1354	
12374	42742	A	12449	1	168	
12375	42743	A	12450	2	147	
12376	42744	A	12451	3	523	LQFFRRSEVKMKNHLLFWGVL AVFIKAVHVKAQEDERIVLVDN KCKCARITSRIIRSSDPNEDIVE RNIRIVPLNNRENISDPTSP\LR TRFVY\HLSLCKK\CDPTEVEL\ DNQIVTAT\QSNICGWMTPQS TCYTLSTGNKCYTAVVPL\VYG GETKMOVETALTPDACYPD
12377	42745	A	12452	3	274	
12378	42746	A	12453	1	120	
12379	42747	A	12454	119	461	PVPQDLQAAVLGRRTTALFK\AV KTGTLQVCKRLLLSFVCL/CPA PRGRQASLSCGGLHPVRASWLL CLPKQAWAMAGAPPAWLPPC SLISDCCASNQRDSVGVPRPSEPG VGYSLV
12380	42748	A	12455	2	370	
12381	42749	A	12456	1	3135	
12382	42750	A	12457	1	942	
12383	42751	A	12458	1	462	
12384	42752	A	12459	1	297	
12385	42753	A	12460	935	1338	CTDGFLVWMSFLFVSFPLPPCS LISDCSASNERDSVGVGPSEPG AGYNLVVRRFLSPSEKRSIRV* VTRFSRCRPSPLSLTRKGNLSLTP CASQVRQCLALFRLAHGVRTH SPAPTVWHSLPKVGPFLNSVP
12386	42754	A	12461	1	268	
12387	42755	A	12462	3	479	
12388	42756	A	12463	1	262	
12389	42757	A	12464	1	304	MAGAPAPASLPPCSLISDCCAS NQRDSMGVGPSEPGAGYNLVP VEKRSIRVGVGTGFSRCCPSPLSL TRKGNLSLTPWASQVRQCLALL QLAHGRGSPNRP
12390	42758	A	12465	1	512	
12391	42759	B	12466	1	1257	
12392	42760	A	12467	1	705	
12393	42761	A	12468	1	3039	
12394	42762	B	12469	66	467	
12395	42763	C	12470	360	747	



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12396	42764	A	12471	3771	4703	SFQFFCSVFSPSLWFYLLL VFDD GDVQMRFRFCGCPFCLLVFL LTD RTLSCRSVGIPCRVRCQCA\LLG GASQLGCSGVKGSRDPLEEAV CPFS\DL\QLRAGGNTALFKAVR QGHLSLQRLLLSFVCLCPAPRG GAYRGGQASLSCGGLHPV*AS\ RLLCLPKQAWAMAGAPPASL L\PC\ILISDCCASNQRDSVGVGP S/ERPGVGYSLVVRRFLSRSEKR NIRGG\VTRFSRCRPSPLSLTRK GNSLTPCASQSEGNAIGPAFGF AHGARTH WALRPTVWHS LCE MNPVPQMEMQKSPVFCVAHA GGCRPEL
12397	42765	A	12472	1	1038	
12398	42766	A	12473	27	428	LADRSAIPGFAIFA VTFLLALVG AVLYLYPWTL LKPC*SHY*GIN LVVAV*VKTT*GKNCKMV*L IL*RVTL PSS*RFG LRLEKAF*M GH LIKT*LGKNNMKMPSCNWS LF*GTS*KNEKEGTSVNIFSLTP
12399	42767	A	12474	107	362	NKPCEEFYFLAALIYLLYHGRK KADTKIPP*ISRFFLILYPSHELT I FIVIHIMCDLGCTWAICFLT TSE EVQKKLYEEINQVFG
12400	42768	A	12475	193	637	TSSEVVKKQIAQVHNFAVIMQL ARENIILSS/EDLLVIKVP LY*GV NENMLTEVPSFSFFYDVP*NRL QLHEGIFILFFPSHVFIK*PI*KAF SNLRPN CAMILLEANDFLIIFKC TTHYHLCNRLHSKTKHMLAEG HVLGLWVGEPFI
12401	42769	A	12476	1	1930	
12402	42770	A	12477	1	362	
12403	42771	A	12478	58	160	GVSLQSTSEEGRGMRQE*TERE IKVTCRSHYRLA
12404	42772	A	12479	3	410	
12405	42773	A	12480	1	807	
12406	42774	A	12481	154	375	
12407	42775	A	12482	2	512	
12408	42776	C	12483	29	455	
12409	42777	A	12484	209	433	
12410	42778	A	12485	1	1546	
12411	42779	A	12486	3	931	
12412	42780	A	12487	1	363	
12413	42781	A	12488	1	351	
12414	42782	B	12489	82	263	
12415	42783	A	12490	1	1878	
12416	42784	A	12491	24	242	
12417	42785	A	12492	1	3558	

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12418	42786	A	12493	2	478	HNSLKSDENKENSFSADHVTTA VEKSKESQVTADDLEEEKAKA ELIMDDDRTVDPLLSKSQSILIS TSATASSKKTIEDRNIKNKKSTN NRASSASARLMTSEFLKKSSSK RRTPSTTTSSHVLGTLKVLDQK PFTETEA*EPDRADNIRGSCLEFR
12419	42787	A	12494	1	1047	
12420	42788	A	12495	1	1055	
12421	42789	A	12496	212	611	
12422	42790	A	12497	2	195	YVMGRNDGGYLMIDSKTAEIK FVKNMNRDSTFIVNKTITAEVL AIDRYSGKNCLLISWSYICG
12423	42791	A	12498	1	429	
12424	42792	A	12499	1	503	
12425	42793	A	12500	3	825	GTTKWQTVRRQKREWIKFAAA CREGEDNSKRNPAAK*SDLQNS LLPALY*KHVRSDCESNQKITY RISGVGIDRPPYGVFTINPRTGEI NITSVVDREITPLFLIYCRALNS RGEDLERPLELRVKYMDINDN APVFSQSVYTASIEENSANTL VVKLCATDADEENHLNSKIAY KIVSQEPGAPMFILNRYTGEV CTMSSFLDREQHSMYNLVVRG SDRDGAADGLSSECDCKIKVLD VNDNFPT/FRENFKQNSSRFSNS LLSSFDQWRKL
12426	42794	A	12501	986	4030	KQRLTWTFS PGKSETMMGLFP RTTGALAI FVVVLVHGELRIET KGQYDEEEMTMQQA KRRQKR EWVKFAKPCREGEDNSKRNPAA KITS DYQATQKITYRISGVGIDQ PPFGIFVVDKNTGDINITAIVDR EETPSFLITCRALNAQGLDVEKP LILTVKILDINDNPPVFSQQIFM GEIEENSASNSLVMILNATDAD EPNHLNSKIAFKIVSQEPAGTPM FLLSRNTGEVRTLTNSLDREQA SSYRLVVSGA
12427	42795	B	12502	1	3572	
12428	42796	A	12503	1	594	
12429	42797	A	12504	1	612	
12430	42798	B	12505	200	532	
12431	42799	A	12506	2	735	
12432	42800	A	12507	5	400	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12433	42801	A	12508	2	1260	GQAASPASPASPAMAWAA LLGLLVALLLLLLSRRRTRRP GEPPLDLGSIPWLGALDFGKD AASFLTRMKEKHGDIFTILVGG RYVTVLLDPHSYDAVVWEPR RLDFHAYAIFLMERIFDVQLPH YSPSDEKARMKLTLLHRELQAL TEAMYTNLHAVLLGDATEAGS GWHMGLLDF/CLQLPAQSRP DSLRLN*GAATHP*KPGPGPRPLS *CLPHLSPARPAAPQTGPWLPV SGGQGPVHCQKSPVEAAIPSQ AGQAGPPEQMAGELPAAPGGD GCVRGDAGTGPAAAAVGHTGE YGSRCLLAPALPSQES*SPGCCP RRAREYPLASGAACLADDHSPT EGSRQHTC/DLIAC*VRASGLQL PPSSPARL\GGPGHAHGRRERI PATW*PPPPLPLPEPPERPRNLH RPRGI
12434	42802	A	12509	3	466	
12435	42803	A	12510	1	1134	
12436	42804	A	12511	2	1211	
12437	42805	A	12512	2	405	HEMLLASEIKHLPRLLIGQERE TQTSELKIKRRGNEEAPS/PPSS AYERGTRKRPDDRYDTPTSKKK VRIKDRNKLSTEERRKLFEQEV AQREAQKQQQMQLGMTSP LPYDSLGYNAPHHPFAGYPPGY PMQA
12438	42806	A	12513	191	898	
12439	42807	A	12514	1	270	
12440	42808	A	12515	2	1328	
12441	42809	A	12516	1	2868	
12442	42810	A	12517	1	1254	
12443	42811	A	12518	1	576	

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12444	42812	A	12519	1919	3044	HQGPSTPPSWAMSGPPTPLSRE DWHQGPSTPPSWAMSEPPT/SSI QGLASGAVHTILLGDVRATYTS IQGVTSQVSVSRAAQMAVPSS RILQLSKPKAPATLLE\EWDPVP KPKPHVSDHNRLHLAKVPRK EGSGKKVGAFFPEIKGPEAFRDK ARAMESQSNMMPFDELLALYG YEASDPISDRESEGGDVPNLP DMTLDKEQIAKDLLSGEEEEET QSSADDLTPSVTSHEASDLFPN RSGCLLAGEAESSRGLLPRAQP VPRGAGLADNSRGALLRAHGT VRVGTTATVKPADAPPESPRDR RSRNDSHRPTGPSESERQPQSN QPTLLLRGHGTIRVRTTATVKP ADAPAESPRDRRSRNDSHGQSS
12445	42813	A	12520	413	1412	
12446	42814	A	12521	293	412	NHLSVAGNGSSPCGL*AGALGL LLWLLASSGHRVLSGMI
12447	42815	A	12522	2	181	
12448	42816	A	12523	1	277	
12449	42817	A	12524	1	739	
12450	42818	A	12525	1	326	
12451	42819	A	12526	3	566	
12452	42820	A	12527	1	465	
12453	42821	A	12528	1	1167	
12454	42822	A	12529	260	395	EVATATPTLSNHYPDQSAAIN/D QG*PLHQKQDHILQKAQMNISIF
12455	42823	A	12530	209	958	FRCVLISFWSHKLHLWYHEGRI VPSDRIVPPHGIVSSHGVALPQR ILMRQFTLLEGLNKDGRFLIQLS GTAPWSSYFNSVAKFGVIHRIH SFFLSHNGHKAVAPLDLLSNVG GSCLCGDASSF\TTPSRITMTSK SWLARSVAEMSYR/WTALVNH VADDQRGHQKNVIALDWVINR NVQLVNRNHLPPRCSCFLDHLD AHRGTNDHAFQVTHSEHEAQ LAISDGNHSMMAAENQSFPSVS LSCFHENAA
12456	42824	A	12531	1	1965	
12457	42825	C	12532	520	684	

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12458	42826	A	12533	701	1307	GRHLTTNHTAAVVVFPRPLCS SFFRYSGFRGVAGATASGRGQG PAG*DNCQRAWRGAFYKFQAT LSAGAGTRAEEGSDGDGEAAE PGAGTAREPARLRGYRSRRFVL DGRRCCLCYFKNPHDPLPLGHL DIAEACFSYQRADEAAEQPAHF QVRSAGAATVLEVGTALRGV HLLRAHRGIWAQAWSPVSFLQ AVLPAWLL
12459	42827	A	12534	1	1356	
12460	42828	B	12535	1	1449	
12461	42829	A	12536	3	2449	
12462	42830	A	12537	1	3327	
12463	42831	A	12538	1	1359	
12464	42832	A	12539	1	672	
12465	42833	A	12540	1	1281	
12466	42834	A	12541	1	399	
12467	42835	A	12542	1	399	
12468	42836	A	12543	171	426	PVSCATGEEEDNVLFPGDDLP R**PGKLWCEFHASSISQALGQ HPRRSVLDTDQSHVPLVRRKTT CFSQRAMISPDDDPSEAGALS RNNLLAPYSALTFMENGNCLL QLFQLGKLLVQASHLHGQLLV FVQKIISM
12469	42837	A	12544	1	988	
12470	42838	A	12545	3	129	LFHPCQDSQQHH*CVCCRLTGH GAA*VHGPCQAVQTYRASH
12471	42839	C	12546	532	1101	
12472	42840	A	12547	197	355	
12473	42841	A	12548	1	1275	
12474	42842	A	12549	3	131	

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12475	42843	A	12550	1746	3504	ESDPSNSTTSMRDRTLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAALLRTY LKNLSPYINSTPPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSTLHLRSPPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCISLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHENRTFPSTQLPHQSPL QPLTAAALAGSLGVVWQDTPF STPSHLFTLHLQFCLAQGLFFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLPLMVGLGLSASTVA LGTGIAGISTSVMFRSLSNDFS ASITDISQTL SVLQAQVDSLAA VVLQGQLRGLDLLTAEKGGLCI FLNEECCFYLNQSGLVYDNIKK LKDRAQKLANQASNYAESPA LSNWMSWVLPVSPILPIFLLLL FGPCIFRLVSQFIQNRIQAITNHS IRQMFLLTSPQYHPLPQDLPSA
12476	42844	A	12551	2	394	
12477	42845	A	12552	1	882	
12478	42846	A	12553	45	409	
12479	42847	A	12554	1	1035	
12480	42848	A	12555	118	312	
12481	42849	A	12556	1	1083	
12482	42850	B	12557	1	1122	
12483	42851	A	12558	97	439	
12484	42852	A	12559	1	450	
12485	42853	A	12560	1	471	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12486	42854	A	12561	2	1407	WGKNRAEKLETLKSRVPLLLQ RNAVPHQQWNKAGRRMTLTS* EKKASDD/PNYSKLQEEIQTKG KEVKHFEKNLDECITRITNREK CLKELMELKAKARELREECRSL RSQCDQLEERVSVMEEIQTIRE YYKHLIYENKLQNLEEMDKFLD TYTLRRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLKLQSFIEKEGI LPNSFYEASIIIPKQGRDITTK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSRNVIHHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGIDETYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSKVSGY KINVQISQAFLYTNYRQSAKS
12487	42855	A	12562	1	846	
12488	42856	A	12563	1	1281	
12489	42857	B	12564	1	274	
12490	42858	B	12565	1	2265	
12491	42859	A	12566	1	2742	
12492	42860	A	12567	1	1272	

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12493	42861	A	12568	222	2130	RKKNKKK*TKPPRNMGLREKT KSMSDWCT*K*RGWVQV/AK TLCRILSRRT/YPNLARQADIQI EIQRTQPQRYSSRRATPKHIVRF TKVEMKEKMLRAAREKGRVT HKGKPIRLTADLSAETLQARRE WGQIFNILKEKNFQPRISYPAKL SFISEGEIKPFTDKQMLRDFVTT RPALKELLKEVLNMERNNRKK LNRPI TGSEIVAIINSLPTKKSPG PDGFTAIFYQRYKEELVPFLK LFQSKEKEGIHPNSFDEASIIIP KAGRDTTTKDNFRPISLMNIDA KILNKILANQIQQHIKKLIHHDQ VGFIPGMQGWFNICQSINVIQHI NRTKDKNHVIISIDAEKAFDKIQ QRFMLKTLNKLIDRMYLKIIR AIYDKPTANIILNGQKLEAFPLK MGTRQGCPSPLLFNIVLEVLA RAIRQEKEIKHIQLGKKEVILSL FADDMIVYLENSIVSAQNLLKLI SNFSKVSGYKINVQKSHAFLLHT NNRQTESQIMSELPFTIASKRIK YLGILTKDVKDLFKENYKPLL NEIKEDTKKWKHPCSWVGRIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRAHT AKSILSQKNKAGGITLPDFQLY CKATVTKTAWY
12494	42862	A	12569	1	474	
12495	42863	A	12570	1	1197	
12496	42864	A	12571	1	1518	
12497	42865	A	12572	1	3189	
12498	42866	A	12573	1	2199	
12499	42867	A	12574	3	2820	ENKDDTYQNL\WDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEKIEQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITDPTIEQTTI REYYKHLIYANKLKNLEEMDKF LDYTLPLRLNQEEVESLNRPI TG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKGRDITK KENFR
12500	42868	B	12575	1	1593	



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12501	42869	A	12576	1	3549	MGDFNTPLSTLDRSRRQKVNK DTQELNSALHQVDLIDIYRTLH HKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRINKLTQNRSTTWKLN NLLLNDYWIHNKMKAEIKMFF ETNKNKDDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EVTKIRAELEKETQKTLQKINE SRSWFFERINKIDRMLARLIKK KREKNQIDTIKNDK
12502	42870	A	12577	1	2724	
12503	42871	A	12578	1	3567	
12504	42872	B	12579	709	2064	
12505	42873	A	12580	1	3370	
12506	42874	A	12581	1	2024	MGFYHVGQAGTELLTSNDPLT SASQSARITGKALQKPTEVPVP YEKMLQDQSALIVQGLPEGVA FKHPENYDLATLKWILENTAGI SFIINSATIEPPAAQPMSTHMG HSLCVLVVETHAKPVAVQSSSF TRNPEVISLEVAAVTVKEESED PDYDYITFKDLPGLIAYETKAYV LWPQLSKICKNGDKNKAYRG QQCRLRQQNPLAALTGKISVS YVSHPSLRVSIGWTRQVARQT MQKDRDGPLKNEGEKNCAGSE KNTLTSQLELEKQEQTTHSKAS RRQEITKIRAELEKETQKTEK INESRSWFFERINKIDRPLARLIK KKREKNQVDAIKNDKGDITDP TEIQTIREYYKHLIYANKLENV EEMDKFLDTYTLPRLNQEEVES LNRPTGSEIVAIINSLPTKKSPG PDGFTAIFYQRYKEELVPFLK LFQSIEKEGILPNSFYEASIIIAK PGRDTTKKENFRPISLMNIDAKI LNKILAKRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKKHMISIDAFAFDKI QPFMLKSLNKL/DIGKNYFKVH MGPKKSPCRQVNPKEQSWR HHST*LQTLQGYSNQNSMVLV PKQRYRSMEQNTALRNATYL QLSDL*QT*EKQAMGKGFPI**
12507	42875	A	12582	722	4214	

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12508	42876	A	12583	228	1152	KNRDYNNKLSLRPQCNCQTRTQN *ESHKPLNYMETEQPAPE*LL DT*R\MKAEIKMFFETNENKDT TYQNLWDAFKATASKTNKEKE KNQIDTIKNDKGDITTDPTETQT TIREYYKHL YANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAINSLPTKKSPGPDGF TAEFYQRYKEELIGWLRESVSK ICKFDHQVQVITGRLIIRFQIAF GTVVLCQLTRHIDVFGKRLA NARFAPSLGGAPDLFTLKPCFV AVETQGDLPQATTVDIDGCL GKPANVQVALDLDVKGFQQW
12509	42877	A	12584	1	2028	
12510	42878	A	12585	2	2264	
12511	42879	A	12586	1	2130	
12512	42880	A	12587	1	2900	MENDFDELREEGFRQSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERVSAME DEMNMKGEGKFREKRIKRNE QSLQEIWDYVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTITSEYYKHL YTN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPI TGAE
12513	42881	A	12588	1	2745	
12514	42882	B	12589	1	3288	
12515	42883	A	12590	1090	2526	
12516	42884	A	12591	1	3242	
12517	42885	A	12592	3862	8976	RAKSPANIIMTGSNSHITILTN VGNLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSLDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
12518	42886	A	12593	1	1000	

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12519	42887	A	12594	1	979	MNNAKENFLGRFQDGRIGTAP VYSPQHQRRRRRVISALPTEPPL VIPRQTGFGVDLQQTPTDLQLR VLTVRRKTTKQEGHSTKTPSVR YHHQRPKEDKTTKMGRNQSRK AENSKNESASSPPKECSSSPATE QSWMENDFDKYTEVGFRQLVI TNFSELKEDVQTHHKEAKNLE KRLDEWLTRINSIENTLIDLMEL KTMARELRDSCTSFSRQFDQVE ERVSVIEDQMNMKREEKFRE KKMLEVLPAIRQEKEIKGIQL GKEEVKLSLFADNMTVYLENPI IS\PKISLS**ATSAKSQDIKSMC KNHKHSYTPITDKQRAKS
12520	42888	A	12595	1140	2210	KPWHKNFVTHAQASIADLIKW KKGYYQ*LKIKLMK*SKKTRNTN YHQNTINISMQIN*KI*KKWRNS WHTLSQY*TRKKLNL*IDQ*Q ALKL/QAIIYSLPTKNVQGGMD SQSNTRVWGILARAIQEKEI KDIQLENEEVKLSLFADDMTVY LENSIVSAQNLLKLRIKYLGIQL TTDVKDLFKENYKPLLNIKIED TNKWKNIPCSWIRGINIMKMAI LPKLIYRFNAIPIKLPMTFFTELE KATLKFIWNQKRAHIAKTILSK KNKAGGIMLPDFKLYYKATAT KAAWYWYQNRDIDKKLTQIYK KKTNNPIKKWAKDMNRHLSKE DIYGANRHMKKCSSSLVIREKQ IKTTMR
12521	42889	A	12596	520	697	GLCSVPLLCISVLVPVPCCFGYC SLVV*FEVR*SDASSFVLLA*DF LGNVSVFLVPYEL
12522	42890	A	12597	1	1410	
12523	42891	A	12598	1	1461	
12524	42892	A	12599	77	457	QALKLRQ*LIAYQPKRVQDQM DSQTNSARGTKRSWYHSF*NYS N/PTEKEGILLNSFYEAGIILIPKP GRDTTKKENFRPISLMSINAKIL NKILANRILQHIKKLINTIKSASS LGCKAGSTYANQ

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12525	42893	A	12600	1	919	MGDFNTPLSTLDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNCLSDHSA IKLELRIKKLTQNCSTTWKLNN MLLNDYWEHNKMKAIEIKMFF ETNKNKDTTYQNLWDTLKAVC RGKFKALNAHKRKKERSQIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKETETQKTLQRLMN PGAVLEVLARAIRQEKEIKGIQL GKEEVKLSLFAADDMIVYLENP MSQPKISLS**ATSAKSQDIKSIY KNHQHSYTPIRDKQRAKS
12526	42894	A	12601	1	1264	MDKFLDITYTLPRLNQEEVESLN RPITGSEIEAIINSLPTQKSSGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RYTHKKNNFRPISLMNIDAKIL NKILANRIQQHIKKLIHQDQVGI IPGMQSWFNIHKSINVIQHINRT KDKNHMIIISIDAEKAFDKIQQPF MLKTLNKLKIPKNPTYKGCE GPLQELQITAQRNKGHRHKQM EEHPMLMDRKNEYHKNHGTTPK VIYRFNVIPIKLPMTFFSELEKST LKFIWNQKRARIAKTILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEM TPHIYNHLIFDKPDKNKQWGK DSLFNKWCWENWLAIGRQLKL DPFLTPYTKINSRWIKDLNVRP KTIKTLEENLGNTIQDISMGKDF MSKTPKAMATKAKMDKWDLI KLKSFCTAKETTIRQSWPEMTK FTFSSNTDVKNWKHGKNNIGR HKTSVNTCKMDSGLVLERWM EWNPGFPLSIDAKCHKDLPRDI QFDSEKGVDFVLNYSKANMR WAGSMFL*FIESF*HEWLLNFV KGLFCIY*DNHVVVFVGSVYML
12527	42895	B	12602	1	1827	
12528	42896	B	12603	13	1377	
12529	42897	A	12604	557	664	KTPLSQPKISLS**ATTAKSQDT KSVYKNQQHSYT

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12530	42898	A	12605	77	1866	QAPKLRQ*LIAYQPKKVQDQTD SQPNSTRGTTKKSWEYHSF*NFSN/ PIEKEGIFPNLFYEANIILIPKGR DTTKKENFRPISLMNVNAKILN KLLANQIQQHIKLIHHNQVGF PGMQGWFNICKSINVQHINRT KDKNHRISIDA EKA FNKIQQPF MLKTLNKLDDMIVYLENPIVSA KNLLKLISNFSKVSGYKINVQK SQAFLYTNNRQAESQIMSAVSF TIASKRIKYLGIQLTRDVKDLFK ENYKPVLNKIKEDTNKWKNI LWIGRVNIMKMAILPKVIYRFN APIKLPMTFFTELEKTTLKFIW NQKRAHIAKTILSKKNKAGGIT LPDFKLYYKATVTKTAWHWY QNRDIDQWNRTEPSEIIPHIYNH LIFDKLDKNKTLGKDYLFNKRC WENWLAICRKLKLDPFLTRYT KINSRWIKDLNIRPKTIKLEEN LGDTIQDIGMGKDFITKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWENIFAIPSDK GLISRIYKELKQIYKKKSNNPIK KWAKDMNRYFSKEDIYAANR HMKKCSSLALREMQIKTTMR YHLIPVRMAIHKSGNNRCW
12531	42899	A	12606	67	243	GLCCVPLIYISVLVPVPCCFGYC SLVV*FEVR*HDASSFVLLA*D* LGDVGSFLVPYEL
12532	42900	A	12607	1554	1692	
12533	42901	A	12608	640	816	GLCSVALVCISVLVPVPCCFGY CSLVV*FEVR*HDASSFVLF A*D *LGNVDSLLVPYEL
12534	42902	A	12609	1626	1739	

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12535	42903	A	12610	1	2014	MKREGSLEKKRIKRNEQSLQEI CDYVKRANLRLIGGPESDGENG TKLENTLQDMQEKFPNLAQA NIQIQEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAREKG QVTHKGKSIRLTADLSAETLQA RREWGPFIENILKEKNFQPRISYP GKLSFISEGEIKSFTDKQMLRDF VTTRPALKELLKEALNMEKNK QYQPPQKHAKLTREARANTFK PSRRREITKIRAELEIETPKTAQ KINESRSWFSEIRINKIDRLARL RKKKREKNQIDTIKNDGDIIT HPTEIHTIIREYYKHLIYANKLEN LEEMDKFLDITYTLPRNQEEVE SLNGPIAGSEIQAIINSLPTKKSP GPDGFYQRYKEELVPFRLKLFQ SIEKEGILPNSFYEASIIIPKPGR DTTKKENFRPISLLNINAKILNKI LANRIQQHIKKLMHHDQVGFIP GMQGWFNIRKSINVIQHINRTK DKNHMIISIDAEKAFDKIQQPF MLKTLNKLIGDGYHKIIRANY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAIR QEKETEGIQLGKEEVKLSLFAD DMIVYLENPMSQPKISLS**ATS AKSQDTKSMCKNHKYSYTPIT DKQRAKSSVNSPFTIASKRIKYL GIQLTRYVKDLFKERSMK
12536	42904	A	12611	1	700	MDKFLDITYTLPRNLNQEVEESLN RPITGSEIEAIINSLSTKKSPGPD GFIAQFYQRTKDKNHMIISIDAE KAFDKIQQHFMKTLNKLIGD TYLKIIIRAVYDKPTASIIILNGQK LEAFPLKTGTROGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKLSLFADDMIVYLENPMSQ PKISLS**ANSAKSQDIKSMCKN LKHSYTLITDKQRAKSSVNSHS QLLQRE
12537	42905	A	12613	1	1765	
12538	42906	A	12614	1	2310	

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12539	42907	A	12615	1	836	MENEFDELTEVHFRRWVITNSS ELKEHVL TQCEEAKNLARRNK LENLEEMDKFLATYTFPSLNQE EVESLNRPITSSEIEAAINSLPTK KHPGPDGFTAKFYQRYKEELHI NRAKDKNHMII SIDA EKA FDKI QHPVKLKILNKL GIDGTYLKIIR AIYDKPTANLILNGQKLEAFPL KTGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIKGIQLGKEEVKLSL FADD\RLYI*GTPLSQPKISLS** ATSAKSQDTKSMYKNHKSHT PTTDKQRAKS
12540	42908	A	12616	355	4502	QSARFRGRRTLRRPGVGYSLVV *FEVR*CDASSFVLLA*DCLGN AGSFLVPYEL
12541	42909	A	12617	248	362	
12542	42910	A	12618	529	680	YYTRCSKWWNCSVLP*IIYINF HLPHGKLNKTDYIKKKLHDFFF KNSKHI
12543	42911	A	12619	1	641	
12544	42912	B	12620	36	48	
12545	42913	A	12621	1	326	
12546	42914	A	12622	1	444	PGSTHASAHACERLQTRTLRAF SSQRRFPATASRASLSSNMAKIS SPTETERCIESLIAVFQKYAGKD GYNYTL SKTEFLSFMNTELA AF TKNQKDPGCP*PHDGRKLGQPT VDGQLDFSEFLNLIGG\QAMAC HDSFLKA VPSQKRT
12547	42915	A	12623	2	6008	
12548	42916	A	12624	530	856	

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12549	42917	A	12625	1	952	MAARGTGDKVKPGCEEAGAAF ELPPSVYAAALHESHQHQPCPA GGARAQRVPGGIVTEPLTCTPP KDMVFLSDDGDDDDDDNDND GGGDDNDGNDNDGNDNDGND DDDGDDNDDDGGDDNDGNG NDGNDNDGNDNDGNDNDGND GDGDDDGVDGDDNDSDGNDG DDDDSDDDGDSNGYDDDG GNDDDDGDSDDDDSDNGDGD NGDGGDDGGGGDDDDNGHDD DGDMMMMMIVMMVMVMVMV MMVMVMVMVVVQLRKRAEA SVSEAKCSINVSDNDGNDGND DGDDDDSDGDDDDGGGDGGD SELTNQFPTNHSGMKASKLRK DSDHREW*W**WWWCN*GR EQRPVFLKQSAQLMSVMIMMM VMVMVMVMVMVMVMVMTMV VVMVVIVNSPINSRLITQA
12550	42918	A	12626	3	380	
12551	42919	A	12627	5	765	RQWEVGRWSGTTIFSCFKKTL YFTNPSPSSSLVTVILRREVTH/ CGGAPEQRYQIIPVCVAARLPT RAQDVLDAHLSEVNAVRFGN SSLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDFDPS VRNSAPVAWDCALSDLHTGQG YQVLAATYNQAAQLWKVGEA QSKETLSGHKDKVTAAKFKLT RHQAVTGSRDRTVKEWDLGRA YSPKRQRPSRTGHDDGGFVE KKRGKCGEKRDQIVTVSV
12552	42920	B	12628	1	2802	
12553	42921	A	12629	458	708	QNRHRHHGPFMSMVAVSSQLLD TPAERLSLHTWKIAQRPRGTP HFPDGA/VQAETLPQTGRPR GTPHFPDGAASSFGYCSLVA
12554	42922	A	12630	2300	6491	EGLEALIHQERLSYWANQVSED RPVCKAIIQKQFEGLVDTGAD VSHALNQWPKNWPQKQAVTG LVGIGTASEVYQSMEILHCLGP DNQESTVQPMITSIPNLWGRD LLQQWGAEITMPAPLYSPTSQK IMTKMGYIPGKGLGKNEDGIK VPVEAKINQEREGIGYPFLGAV TVEPPKPIPLTWKTEKPVWVNQ WPLPKQKLEALHLLANEQLEK GHIEPSFSPWNSPVFVIQKSGK WHTLTDLRAVNAV



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12555	42923	A	12631	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGTHGTDGFDGFKG GLIEIPDSIGKDKEKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
12556	42924	A	12632	1	642	
12557	42925	A	12633	260	534	
12558	42926	A	12634	1	438	
12559	42927	C	12635	391	750	
12560	42928	A	12636	199	451	
12561	42929	A	12637	120	992	RDRIPGPVCKGKWKNKERILIFS SRGINFRTRHLMQDLRMLMPH SK\HDTNMARSDNLSVINEGCE MNNWLRCIYFEAKKKQDLYM WLSNSPDGPSAKFLVQNIHTLA ELKMTGNCLKGSRPLLSFDPAF DELPHYALLKELLIQIFSTPRYH PKSQPFVDHVFTFTILDNRIWFR NFQIIEEDAALVEIGPRFVLNLIK IFQGSFGGPTLYENPHYQSPNM HRRVIRSITAKEYREKQQVKDV QKLRRKEPKTLLPHDPAADV VTPAEEKPIEIQWVKPETKVDL KASV
12562	42930	A	12638	1	342	
12563	42931	A	12639	1	580	PGWEKRMSRSS/GVNTQEALPT AAIPTDAKVRVYYFNHITNASQ WERPIGNSSSGKNGQGEPARV RCSHLLVKHSQSRPSSWRQEK ITRTKEEVALELINGYIQKIKSGE EDFESLASQFSDCSSAKARGD LG\SFSRQMQKPF*RTPRFAL\ RTGGDERGPCFTD\SGIHILPHL SEGGKPRPGLGAGQGG
12564	42932	A	12640	3	116	
12565	42933	A	12641	2	253	
12566	42934	A	12642	3	512	EDYLERKRQ/VPTECQTHSKLG GPMTLKREVVP/KVDVSPSKKG PL\QHHTLL\VCHVRIFYPGSIQ/ VRWFLNGRKKTAGVVSPLIR NGDWT/FQILVMLEM/TPQQGD VYTCQVEHTSLDSPVTVEWKA QSDSARSKTLTGAGGFVLGLIIC GVGIFMHRRSK\FNEDLHKQG
12567	42935	A	12643	1	363	
12568	42936	B	12644	70	1229	
12569	42937	A	12645	1	430	
12570	42938	B	12646	1	1321	
12571	42939	A	12647	3	446	

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12572	42940	A	12648	1	417	
12573	42941	A	12649	269	452	TILRSFGYFFRRINIMLTEEKIS DHRKISQLIFLQKLCQTLQSENV SQGGMLYRAKA*H*T*TLVWV *HVMSYPHKGLGLMLSLCSVK HSTLRDVFTL
12574	42942	A	12650	83	1385	
12575	42943	A	12651	1	974	MNPLECVDRSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAASLTGQELLAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGILCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVSYDMNPMDLKFANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12576	42944	A	12652	1	1103	MNPLECVDRSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAASLTGQELLWNFPLLMF AWKIAPALCCGNTVVIKPAEQT PLSALYMGALIKEAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGILCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVSYDMNPMDLKFANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12577	42945	A	12653	1	729	
12578	42946	A	12654	259	390	SFCSANFEVFRLLTAQQ*FVR*H ALSHIF*G*V*SFPKSTKRVNF
12579	42947	A	12655	68	735	
12580	42948	A	12656	1	825	
12581	42949	A	12657	3	470	
12582	42950	A	12658	1	1683	

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12583	42951	A	12659	1	1748	MNKPYIRNLSENAAPLDLEGIL KDAKIPVSGPFLVKIGYAFVDC PDEIWALKAIEALSGKIELHGKP IEVEHSVPKRQRIRKLQIRNIPPH LQWEVLDS*LVQYGVVESCOQQ VNTDSETAVVNVITYSSKDQAR QALDK/LLDKLNGFQLENFTLK VAYIPDEMATQQNPFLQPRGRR GLGQRGSSRQGSPPSVSKQKPC DLPLCLLVPTQFVGAIIGKEGAT IRNITKQTQSKIDVHRKENAGA AEKSITILSTPEGTSAACKSILEI MRKETQDVKFTEEIPLKILAQN NFVGRLLIGKEGRNLKKIEQDTD TKITISPLQELMQYNPEHTITAK GNVETCAKAEIEIMKKIRER*E NDITSM/N/LQAHLPGLNLNAL GLFPPTSGMPPPTSGPPSAMTPP SPQSEQSESETVHLFIPALSVRA LISKQGGHIKQLSRFAGASSKIA PVEAPDAKVRMVMIAGSPEAR FKAQGRIYGKIKEENFVSPKEE VKLEAHIRVPSFAAGRVIGKGG KTVNELQNFSSAEVVVPRDQTP DENDQVVVKITGHFYACQVAQ RKIQEILTQVKQHQQQKALQSG
12584	42952	A	12660	3	803	
12585	42953	B	12661	1	330	
12586	42954	C	12662	127	342	
12587	42955	A	12663	324	491	
12588	42956	A	12664	1	891	
12589	42957	B	12665	1	1869	
12590	42958	A	12666	2	136	
12591	42959	A	12667	108	355	
12592	42960	A	12668	2	811	FGMRGSRGGWAGEMAASGES GTSGGGGSTEEAFMTFYSEVKQ IEKRDSVLTSKNQIERLTRPGSS YFNLNPFEVLQIDPEVTDEEIKK RFRQLSILVHPDKNQDDADRA\ QKAFAVDKAYKLLLDQEQQK RALDVIQAGKEYVEHTVKERK KQLKKEGKPTIVEEDDPELFGKQ AVYKQTMKLFAELEIKRKERE AKEMHERKRQREEEIEAQEKA KR/EEREWQKNFEESRDGRVD SWRNFQAQFRRGKKEKKNRTF LRPPESKNGSNVE
12593	42961	A	12669	731	850	
12594	42962	A	12670	201	377	LMTLPCKIPSPGSSWLKISPIEHL MTPTPASQRTTPFDCNFPLPTQI L*NGPTPISLH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12595	42963	A	12671	742	2982	KIFPFDASFLPCLHKFNLKGKG NSKGFKMAEFESLMNIHGFDL GSR YMDLKPLGCGGNGLVFSA VDNDCDKRVAIKKIVLTD PQSV KHALREIKIIRRLDHDNIVKVFE ILGPSGSQLTDDVGSLTELSNV YIVQEYMETDLANVLEQGPLE EHARLFMYQLLRGLKYIHSAN VLHRDLKPANLFINTEDLV LKI GDFGLARJMDPHYSHKGHLSE GLVTKWYRSPRLLLSPNNYTK AIDMWAAGCIFAEMLTGKTLF AGAHELEQMQLILESIPVVHEE DRQELLSVIPVYIRNDMTEPHK PLTQLLPGISREALDFLEQILTF PMDRLTAEALSHPYMSIYSFP MDEPISSH PFHIEDEVDDILLMD ETHSHIYNWERYHDCQFSEHD WPVHNNFDIDEVQLDPRALSD VTDEEEVQVDP RK YLDGDREK YLEDPAFD TN YSTEP CWQYSD HHENKYCDLECSHTCNYKTRS SSYLDNLVWRESEVNHYEYEPK LIIDLSNWKEQSKEKSDKKGKS KCERNGLVKAQIALEEASQQLA GKEREKNQGDFDFSFIAGTIHL SSQHEPTDVGD KLNDLNSSVS QLELKSLSKSVSQEKQEKGMA NLAQLEALYQSSWDSQFVSGG EDCFFINQFCEVRKDEQVEKEN TYTSYLDKFFSRKEDTEMLETE PVEDGKLGERGHEEGFLNNSGE
12596	42964	A	12672	826	1041	WKITVKGGVFLWWAGVGD TK VLSGGAF*ARMSQEEDFH KVM SSVKARTGHLHFFCGGMSSVK AGQGPF SVLL
12597	42965	A	12673	1	1482	
12598	42966	A	12674	3	488	
12599	42967	A	12675	2	114	

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12600	42968	A	12676	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTDDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSSDFCHWGQRFR Y\SYIDESQGEIY*\SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQC\RNWQD SSVSYAAGALTVH
12601	42969	A	12677	2	114	
12602	42970	A	12678	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTDDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSSDFCHWGQRFR Y\SYIDESQGEIY*\SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQC\RNWQD SSVSYAAGALTVH
12603	42971	A	12679	1	912	
12604	42972	A	12680	1	156	
12605	42973	A	12681	112	1120	
12606	42974	A	12682	33	415	NMNKPITPSTYVRCLNVGLIRK LSDFIDPQEGWKKLAVAIAKKPS GDDRYNQFHINDAVPKTANTLP SKEAITVQQKQMPFCDKDRTL MTPVQNLEQSYMPPDSSSPENK SLEVSDTRFHSFSFYELKN
12607	42975	A	12683	3	311	
12608	42976	A	12684	1	1125	
12609	42977	A	12685	1	1365	
12610	42978	A	12686	3	141	VVSTVVPDS/AHKLFIGGLPNYL NDDQCHGLSKGYAFCEYVDIN VTV

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12611	42979	A	12687	1	1255	GTRSTSSLRRQMKNIVHNYSEA EIKVREATSNDPWGPSSSLMSEI ADLTYNVVFSEIMSMIWKRL NDHGKNWRHVYKAMTLMEYL IKTGSEVSQQCKENMYAVQT LKDFQYVDRDGKDQGVNVRE KAKQLVALLRDEDRLREERAH ALKTKEKLAQTATASSAAVGS GPPPEAEQAWPQSSGEEELQLQ LALAMSKEEADQEERIRRGDDL R\RRWQSRRRARGRLGARRSRPS WTLTSSRPQLLPRPQTGGGAQ HPWLLPSPRLPPRTPGAAPLSL QLLIPGEVQPPRRPLGTPGGLLP LQDPQLTLGVGPQPLQLGRGPR LIHGEVPMVGSRVGPQPPIPGH RPRPSQIPGEGHLPSPAPMAQQ QPGDSTRSPTSSLTLTDSARHCR PPGAAQESWSCWQERCPEAL
12612	42980	A	12688	116	1541	
12613	42981	A	12689	3	415	
12614	42982	A	12690	1	1440	
12615	42983	C	12691	117	314	
12616	42984	A	12692	3	120	
12617	42985	A	12693	1	729	
12618	42986	A	12694	79	870	EWSSVRRSLVEKRALRRPHPQC LCFRMKTILSNQTCRPFPE\NVD \ITLKGRP\VIV*GPAEGTLR\RDF \NHLQW*NLSLSWKEKKRGSR VDK\WWGNRKGWPT\VRTYL VVHVQNMKGVLPLGLPVTKD EGLVYA\HFPHPTLVIPGRNGSS LLKSRNFLGVKNTSRRVSG*RP GVACSVSSSPRKDEFNPLKGN DIGACFQISAGFGFQQAPHTCL KTRDIQGNFWDGYPMVLWKK GTVSARAGWNKDLKEFTWATE RKMPG
12619	42987	A	12695	2	293	
12620	42988	A	12696	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
12621	42989	A	12697	1	1308	

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12622	42990	A	12698	124	1135	DKNSMGLPGVIPSCAAVLWSSI HLSSSALSPTISACRHPMEDSM DMDMSPLRPQNYLFGCELKAD KDYHFKVDNDENEHQLSLRTV SLGAGAKDELHIVEAEAMNYE GSPKVTLATLTKMSVQPTVSLG GFEITPPVVLRLKCGSGPVHISG QHLVAVEEDAEESEDEEEEDVK\ LLSISGKRSAPGGGSKVPQKK\ KLAAD\EDDDDD\DEEDDDDED \DDDDF\DEEEAEEKAPVK\KSI\ RDTPAKNAQKSNQNGKDSKPS STPRSKGQESF\KKQEKTPKTPK GPSSVEDIKAKMQASIA/EKGGG LPKVEAKFINYVKNCFRMTDQ EAIQDLWQWRKSL
12623	42991	A	12699	201	416	
12624	42992	A	12700	2	678	
12625	42993	A	12701	3	2149	
12626	42994	A	12702	1	219	
12627	42995	A	12704	267	437	
12628	42996	A	12705	507	845	
12629	42997	A	12706	426	704	SRRWGGVHSCPPSPPTAGHWT LLILCAKARRSEAAAMVLASRRR RPGPRRRRRRLPVLGSRGGAG PARGRGPSGWPGPLRAAPSP*P SSTV
12630	42998	A	12707	195	892	
12631	42999	A	12708	1	893	
12632	43000	A	12709	1	777	
12633	43001	A	12710	1	439	KTQVAPSTDGIQPA PSSNSRTDE REFFIASYNRKKEDGEGNVWIA KSSAGAKGEGILISSEASELLDFI DNQAQVHVVIQKYLEHPLLEPG HRKFDIRSWVLVDHQYNIYLY REGVLR TASEPYHVDNFQDKT CHLTNHC IQKKKKK
12634	43002	A	12711	1	394	SGTRPVFLVPHTIGIPHPAIVTP QVKQEH PHTDSDLMHV K PQHE QRKEQEPKRPHIKKPLNAFMLY MKEMRANVVAECTLKESAAN QILGRRWHALSREEQAKYYEL ARKERQLHMQLYPGWSARDN
12635	43003	A	12712	1	789	
12636	43004	A	12713	1	870	
12637	43005	A	12714	1	729	
12638	43006	A	12715	1	828	
12639	43007	A	12716	1	213	
12640	43008	A	12717	1	664	
12641	43009	A	12718	1	695	
12642	43010	A	12719	96	269	

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12643	43011	A	12720	3	241	
12644	43012	A	12721	213	660	EGPARHRLLSVVRASKMTKKR RNNGRAQKRAARHVRGPSPLK/ CFPSGPLPPNCAR\CVPK\DKAIK KF\VI\RNIVEAAA\AR\DISASV FDAYL\LPKL\YVKLH\YCVSCAI HKQK*SGNRSS*SPAKTRTPPPR FR\PGG*LPHGPPTKSP
12645	43013	A	12722	1	303	
12646	43014	A	12723	610	928	FLSLPTFLFVIFSGEEELLVLALV FLSLFFFFFFLWRSFAVVAQA\V VQWHNLSSLPPFGFKQFSCLSLP SSWDYRCPPRPANFCIFTRDG VSPCCPGWSRTSDLR
12647	43015	A	12724	1	2775	
12648	43016	A	12725	1	6039	
12649	43017	A	12726	2	3661	
12650	43018	A	12727	1	1173	
12651	43019	A	12728	1	1632	MPNPKNSKGGGRKNKRANSSGD EQENGAGALAAAGAAGAAAG GALAAAAGCGAAAAGAPGAG GAAGAGGAGTGAANAAAAAG AAAAGDAKNEAPCATPLICSFG RPVDLE\KDDYQKVVCNNEHC PCSTWMHLQCFYEWESSILVQF NCIGRARTWNEKQCRQNMWT KKG\YDLA\AFRCSCRCGQGNL KKD TDWYQVKRMQDEKKKS GSEKNTGRPPGEAAEEAKKCRP PNKPQKGPSHDLP RRHSMDRQ NSQEKA VGAAAYGARSPGGSP GQSPPTGYSILSPA HFSGPRSSR YLGEFLKNAIHLEPHKKAMAG GHVFRNAHFDYSPAGLAVHRG GHFDTPVQFLRRDLSELLTHIP RHKLNTFHV RMEDDAQVGQG EDLRKFILAALSASHRNVNCA LCHRALPVFEQFPLVDGTLFLSP SRHDEIEYDVPCHLQGRLMHL YAVCVDCLEGVHKIICIKCKSR WDGSWHQLGTMYTYDILAASP CCQARLNCKHCGKPVIDVRIG MQYFSEYSNVQQCPHCGNLDY HFVKPFSSFKVLEAY
12652	43020	A	12729	1	1485	
12653	43021	A	12730	1	1074	
12654	43022	A	12731	2	3394	
12655	43023	A	12732	1	2190	
12656	43024	A	12733	1	1251	
12657	43025	A	12734	1	1710	
12658	43026	A	12735	3	679	



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12659	43027	A	12736	209	337	
12660	43028	A	12737	365	538	
12661	43029	A	12738	2	196	
12662	43030	A	12739	1	2639	
12663	43031	A	12740	3	173	
12664	43032	A	12741	1	1479	
12665	43033	A	12742	1	921	
12666	43034	A	12743	1	798	
12667	43035	A	12744	2	773	
12668	43036	B	12745	75	321	
12669	43037	A	12746	321	738	
12670	43038	A	12747	1	3190	
12671	43039	A	12748	287	1636	ACGAMERAPPDGPLNASGALA GDAAGGARGFSAAWTAVL AALMALLIVATVLGNALVMLA FVADSSLRTQNNFFLLNLAISDF LVGAFCIPLYVPYVLTGRWTFG RGLCKLWLVVDYLLCTSSAFNI VLISYDRFLSVTRA VSYRAQQG DTRRAVRKMLLVWVLAFLLYG PAILSWEYLSGGSSIPEGHCYAE FFYNWYFLITASTLEFFTPFLSV TFFNLSIYLNQRRTRLRLDGAR EAAGPEPPPEAQSPPPPPGCWG CWQKGHGEAMPLHRYGVGEA AVGAEEAGEATLGGGGGGGSVA SPTSSSGSSSRGTERPRSLKRG KPSASSASLEKRMKMVSQSFTQ RFRLARDRKEAKSLAVIVSIFG LCWAPYTLLMIIRAACHGHCVP DYWYETSFWLLWANSVNPV LYPLCHHSFRAFTKLLCPQKL KIOPHSSLEHCWK
12672	43040	A	12749	1	2142	
12673	43041	A	12750	3	711	VWWSNDLMVINRSTTELPLTV SYDKVSLGRLRFWIHQDAVY SLQQFGFSEKDADEVKGIFVDT NLYFLALTFFVA AFHLLFDFLA FKNDISFWKKKSMIGMSTKA VLWRCFSTVVIFLFLDEQTSLL VLVPAGVW/AAAIELWES*RK/ VI*RTWIFWRGLMPEFQFGTYS ESERKTEEYDTQAMKYLSYLL YPLCVGGAVYSLLNIKYKSWY SWLINSFVNGVYAFGFLFMLPQ
12674	43042	A	12751	1	2025	
12675	43043	A	12752	494	747	ATVKWITLCRNRNIKLPFIKKE GTGKAPKSRKSVLGLGP*VHT SPGDPAGEGLPAGERPDGNLS QSPNSLRFYIKKKKAYK
12676	43044	A	12753	9	731	

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12677	43045	A	12754	143	641	RSWVLLGVGARGSTPRTYQVP SPSLAPSALC*VS*VPLESLSCSH ADNWKQELTKFISPDQLPVEFG GTMTDPDGNPKCLTKINYGGE VPKSYYLCKQVRLQYEHTRSV GRGSSLQVENEILFPGCGLRVL RFYNTYSLVHSKRISYTVEVLL PDQTFMEKMEKF
12678	43046	A	12755	1	1506	
12679	43047	A	12756	2	526	CQPVRAA*RHGNTPLATV*PAS T/WWKWSEKQKEEQEMQNWR ESAS/VSGYPQDILSCAMSQNPR KRKRPRNVSAPPVHQMAQMNI SVEQMETS KTHQATPLTWGQM KRLAHVAEENLRSQNKPLTTSN LMVAMMVVISLAVSLPVAGAD QNYIYWAYIPFPH
12680	43048	A	12757	1	1443	
12681	43049	A	12758	3	766	
12682	43050	A	12759	29	253	
12683	43051	A	12760	34	252	
12684	43052	A	12761	1362	1611	SSVLHPWDARLVQHT\KSIHIIH HINRTNDKNHMIISIDA EKA F D KIQQDFMLKTLNKL GIDGTYLK IVRATYDKPTASIILNG
12685	43053	B	12762	1	1755	
12686	43054	A	12763	1	2109	
12687	43055	B	12764	1	1497	
12688	43056	B	12765	1	1527	
12689	43057	B	12766	1	1746	
12690	43058	B	12767	1	2853	
12691	43059	B	12768	1	1479	
12692	43060	B	12769	1	1932	
12693	43061	A	12770	1269	1581	NTGKPNPAAHQKGYPPRSSGPH PWDARLVQHT\KSIHIIHHINRT KDKNHMIISIDA EKA F D K I Q L P F MLKTL SKL GVSYNMFTRLTIPI AQVDTRGNQLPSYLI
12694	43062	B	12771	1	4404	
12695	43063	B	12772	56	2080	
12696	43064	B	12773	1	5445	
12697	43065	B	12774	295	2831	
12698	43066	A	12775	89	459	
12699	43067	A	12776	2	980	
12700	43068	A	12777	1	378	
12701	43069	A	12778	1	363	PGVALPGRRCRQAPADLLP*MR AYWPDVIYSFANRSR F W K H E W EKHGTCAAQVDALNSQNKYFG TSLELYRELDLNSVLLKLGIKPS INYYQVADFKDALARVYGVIP KIQCLPPSQDEDRQ

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12702	43070	A	12779	1	577	QRFKNDCRDPDRTGPIHGLWPD KSEG/CNRSW/PFNLEEKDLCP EMRAYWPDVIHSFPNRSRFWK HEWEKHGTCAAQVDALNSQK KYFGRSLELYRELDL/NQVADF KDALARVYGVIPKIQCLPPSQD EEVQTIGQIELCLTKQDQQLQN CTEPGEQPSPKQEVWLANGAA ESRGLRVCEGDPVFYPPPKKTK
12703	43071	A	12780	1	624	MRPAALRGALLGCLCLALLCL GGADKRLRASVSRPFSLEHPEP GHCLDLHLRAYPAR\WSS*PWP QDFWVR*PTWES/VSDLLPEMR AYWPDVIHSFPNRSRFWKHEW EKHGTCAAQVDALNSQKKYFG RSLELYRELDLNRGERVPTQFP RELVVNRSLAPPPTPGFLSGHVI SVHTSSPLPSAMSGSFLRPLPEA ESGSMLLGQPADP
12704	43072	A	12781	1	612	
12705	43073	A	12782	113	1149	RGAPRGPGRQGCGHSRSPAR GPRDTGLGRPRAPGAGGRCCS GGSAAARGLGDSVSPGSLPRAA GGKWEPERQLAAFPQVGTMR PAALRGALLGCLCLALLCLGG ADKRLRDNHEWKKLIMVQHW PETVCEKIQNDCRDPPDYWTIH GLWPKSEGCNRSWPF\NLEEI KDLLPEMRAYWPDVIHSFPNRS RFWKHE/WPKRHGTCAAQVD ALNSQK\KYFGRSLELY\RKLDL NSVL\KLGKIPSYNYQVADFK DALARVYGVIPKIQCLPTSQGE\ EVQTIGQ\IDLCLIKARTRQLQN\ CTEPGEQ\SPKQEVWLANGA\ AESRGLRVCEGDPVFYPPPKKT
12706	43074	A	12783	2	515	
12707	43075	B	12784	62	359	
12708	43076	B	12785	219	523	
12709	43077	A	12786	1010	1550	DTENIPSSRRRERSKVPIYVRQC VEEIERRGMEEVGIYHVSGR\W AADIQALKAAFNVSECRPAQD GMEVWAVVSAMRSQSAPRPRH VTSFSVSFLHLSGSSRRPLHFRA LS\NNKDVSVMMSEMDVNAIA GSLKLYFRELPEPLFTDEFYPNF AEGIGEHWRPWPHGRRLHVVH CCPQRL

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12710	43078	A	12787	2	951	GSNLYCTLEGDSFGYFVNKAK TRVYRD/THADPNWNEEFIEL EGSQTLRILCYEKCYNKTKIPKE DGESTDRLMGKGQVQLDPQAL QDRDWQRTVIAMNGIEVKLSV KFNSREFSLKRMPSRKQTGVFG VKIAVVTKRERSKVPIYIVRQC VEEIEPPKALEGGWASTACPAG VATDIQALKAAFDGNKDVSV MMSEMDVNAIAGTLNLYFREL PEPLFTDEFYPNFAEG/IRVAEK EAVNNM\SLHNLA TVFGPTLLR PSEKESKLPANPS\QPITMTDSW SLEVMSQVQVLLYFLQLEAIPA PDSKRQSILFSTEV
12711	43079	A	12788	3	644	
12712	43080	A	12789	168	378	
12713	43081	A	12790	1	486	
12714	43082	A	12792	83	536	
12715	43083	A	12793	1	662	
12716	43084	A	12794	3	357	
12717	43085	A	12795	2	421	
12718	43086	A	12796	2	908	
12719	43087	A	12797	1	846	
12720	43088	C	12798	87	413	
12721	43089	A	12799	1	508	MCQGD TYA WGGHMC RGGHLR RGHSHERDTPRGPERPPPPAR DRESKDERRRPPPKDPPAVRTC\ PDSPSTATPPPPPPPPPPPPPPPP PAAPSAFAALRLRGPGRKWTA RGQLPLPATAPPEARVRALPRGG YSSPGRATSARGPAPWPLPSRT GKPPRPCSANTQEHC
12722	43090	A	12800	1	393	
12723	43091	A	12801	1	582	
12724	43092	A	12802	1	1422	
12725	43093	A	12803	1	1080	
12726	43094	A	12804	2	261	SCPFGGNCFYKHA YPDGRREEP QRQKVGTTSSRYRAQRNRHFW LIEERENSNPFDNDEEEVVT FEL GE\MLLMLLAAGGDEL TNS
12727	43095	B	12805	60	802	
12728	43096	A	12806	2	238	
12729	43097	A	12807	1	1017	
12730	43098	B	12808	1	939	
12731	43099	A	12809	1	708	

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12732	43100	A	12810	1	2653	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLIDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRRSEIKINCLSDHSA IKLELRICKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDKGDMSTNHTEI QTTIREYYKHL YANKLENLKEI DKFLETYSLPRLNQEEVESLNR PITGSEIEAIINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQKNKAGGIMLPDFKLYY KATITKTAWYQYQNRDIDQW NRTEPSEIMPHIYNHLIFDKPDK NKKWKGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKLEENPGNTIQDI GMGEDFMSKTPEAMATKAKID KWDLIKLSFCTAKETTIRLNR PPTWEKIFAIYSSDKGLISRIYN ELQQIYEKKTNPIKKWAKDM NRHLSKEDIYAAKRHMKKCAS
12733	43101	B	12811	1	2748	
12734	43102	A	12812	1	1962	
12735	43103	B	12813	1	1833	
12736	43104	A	12814	176	421	QQPASPTRSVLLFPKTAHISGSP APPNVGLLNPSTGAAQKKTMT SAGLGRLSL*K*LNLPECVACA GETWVTSMMSGNQC

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12737	43105	A	12815	1	1615	LISNFSKVSGYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR MKYLGIQPTRDMKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMAILPKNWKKTTLKFI WNQKRARIAKSILSQKNKAGGI MLPDFKLYYKATITKTAWYWY QNRDIDQWNRTEPSEIMPHIYN HLIFDKPDKNKKWGKDSL FNK WCWENWLAICRKLKLD PFLTP YTKINSRWIKDLNVRPKTIKTLE ENPGNTIQDIGMGEDFMSKTPE AMATKAKIDKWDLIKLKSFCT AKETTIRLNRPTEWEKIFAIYS SDKGLISRIYNELQQIYEKKTNN PIKKWAKDMNRHLSKEDIYAA KRHMKKCASSLAIREIQIKTTM RYHLTPVRMAIHKSGNNRCW RGCGEIGTLLHCWWDCCLVQP LWKS VWRFLRDLELEIPFDPAIP LLGIYPKDYKSCCYEDTCTHMF IVALFTIAKTWNQPKCPTMIDW IKKMWHIYTMEYYADIKKDEF MSFVRTRMKLETILSKISQAEK KTKHRMFSLIGGN
12738	43106	A	12816	1	996	
12739	43107	A	12817	1	756	
12740	43108	A	12818	1	1428	

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12741	43109	A	12819	1	2377	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NIVQHINRTNDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGIQLRKEE IKLSLFADDMIVHLENPIVSAQN LLKLIDNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SERIKYLG IQLTRDVKDLFKEN YKPLLNDIKEDTNKWKNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKGARIAKSILIYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPDKNKKWGNDS LFNKWCWENWLAICRKLKLDLP FLIPYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIAMGKDFMS KTPKAMATKAKIDKWDLINLK SFCTAKETTIRVNRQPIEWEIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMHI KTTMRHHLTSVRMAIKKLGN DWCWRGCGEIGRLLHCWWDC KL VQPLWKS VWRFLRDLELET PFDPATPLLGIYPKDYKSCCYK DICT/RVCVPAALFTIANTWNPT
12742	43110	A	12820	1	4840	
12743	43111	A	12821	578	630	EYKNR*GLSLNPWGKTVHISW DVWSVGSSKAKRNWESWES*C RGIQKKASLRSRTGNHSASSGI* ESRV*GLGTTGYRGITASLMSL RSCTRLH
12744	43112	A	12822	8	214	EEWPKRKSEIRERPRP*SWPSDK QTLVVQRGQKMEQANHPDPTD HMSQLMWTACPKGLGIALICL VRH
12745	43113	A	12823	33	240	GGGRNTWLQAVPGFPGW*RTL RTAVWDRRLTLRKPHHCPGGS QFPGPQRQVIGLLHFLSSLNHQ GW FV

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12746	43114	A	12824	1	411	MSTITQRKEENPSVFLEWLWEA /CKKIYSPVTRLTRGSIDPKR*V YYAISHRYQQKAPKPSGP*TK SGGIKPGNLGVLY*GPRGTGQ KGKARSEKGCSLSHGPTNKP WWFREDRKWSRPITWYGFLSV WFARTP
12747	43115	A	12825	1	611	
12748	43116	A	12826	120	493	KYRAQRRMIARWLPQDLERGE AMLPNSSGWYKSLKGI/VLISEA FSCCKRAASLTADWL*VKHS SPKKVQSPFSAVRRSKPWQFW RVTAAKQSIWDCRVRIDFVISC KLRNPLRVCGSRILK
12749	43117	A	12827	1	2195	VGEEGPAGVEGLNFPQAQSRRLP GPQQCSPGAEQGASARARRPRP RPRPAAMVPGVPGAVLTCLW LAASSG\SWRPAPAR\CAAAG RVAVCRERPARS\CASRCLSLQI TRISAFFQHFNNGSLVWCQNH KQCSKCLEPCKESGDLRKHQC QSFCEPLFPKKSIECLTSCEFLK YILLVKQGDCAPEKASGFAAA CVESCEVDNECSGVKKCCSNG CGHTCQVPKTLYKGVPLKPRK ELRFTELQSGQLEVKWSSKFNI SIEPVIYVVQRRWNYGIHPSED DATHWQTVAQTTDERVQLTDI RPSRWYQFRVAANVHGTGRF TAPSKHFRSSKDPSAPPAPANLR LANSTVNSDG/AV*TVTIVWDL PEEPDIPVHHYKVFWSWMVSS KSLVPTKKRRKTTDGFQNSVI LEKLQPDYVVELQAITYWG QTRLKSAKVS LHFTSTHATNNK EQLVK\TRKGGIQTQLPFQRRRP TRPLEVGAPFYQDQQLQVKVY WKKTEDPTVNRVHVRWFPEAC AHNRTTGSEASSGMTHENYIIL QDLSFSCKYKVTVPPIRPKSHS KAEAVFFTPPCSALKGKSHKPI GCLGEAGHVLSKVLAKPENLS ASFIVQDVNITGHFSWKMAKA NLYQPMGTGFQVTWAEVTTESR QNSLPNSIISQSILPSDHYVLT PNLRPSTLYRLEVQVLTGEG
12750	43118	A	12828	1	1410	
12751	43119	A	12829	2	299	
12752	43120	B	12830	81	510	
12753	43121	A	12831	3	436	
12754	43122	A	12832	1	769	



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12755	43123	A	12833	15	413	ERM CAGPWRKGAETGPYFCND TVRHRKASLLCPF*RMNGDQN SDVYAQEKQDFVQHFSQIVRVL TEDEMGHP EIGDAIARLKEVLE YNAIGGKYNRGLTVVVAFREL VEPRKQDADSLQRAWTVGWC VELLQA
12756	43124	A	12834	1	795	MNGDQKSDVYAQEKQDFFQHF SQIVGVLTEDMGHSEIGDAIA RLKDVLEYNAIGGKYHRGLTV LVAFQELDAINYAILLEACIYYL LKLYCQAQPYLNLIELFLQISC QPEIGQTLDLITAP/QDNVDFGR FT/EKQHANA*KILLEI/GEFFQI QDGYLDLFGDPTVTRKVGTDIQ DNKCSWL VVQCLQRSTLEQYQ ILKENYGQKKAKKVQVKALY EELDLPVFLQYEEDGYSHIMG LTEQYAAPLLPAMFLGLVYKIY
12757	43125	B	12835	1	328	
12758	43126	A	12836	2	868	
12759	43127	B	12837	118	1138	
12760	43128	A	12838	100	374	KHISPALKALELPFERNLII/PLQ LLKVRILKEGEML/DI*HWFL** GMGT VQKGMPHKCYHGKTGR VYNVTQHAVGIVVNKQVK*VV
12761	43129	A	12839	1	1035	
12762	43130	A	12840	13	600	INPPPPPF RPELPSSNSPKMTDH KGERGEATRYMFSRPFKKTMG VVPLGHNN*RFYKKGDIVDNK GMGYCVQNGMP\HKCYPWPKL EGVLQLLPQHA\VAIVVNQPV GQSFFPRE*IVRIEHIKHF*EPEIS FLK/RVLKENDSEKERSPNEKG TWGSNLKRHLAPPQKKHTL*R TNGKEPEL\LEPIPYEFHGHN
12763	43131	A	12841	1	317	QRPSEAKEIKLYAQIPPIEKMDA SLSMLANCEKLSLSTNCIEKIAN LNGLAEAVGDTLEELWISYNFIE KLKGIHIMKKLKILYMSNNLVK DWGTPVIKGDEEEDN
12764	43132	A	12842	155	588	
12765	43133	A	12843	1	954	
12766	43134	A	12844	1	486	
12767	43135	A	12845	1	367	
12768	43136	A	12846	1	190	LISRAKEDDMTLNIAEGVHPSY NIVLNTLHT/CGISVKSTWRPSK GAAP*ARMPGGTAGPCLAS

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12769	43137	A	12847	1	2376	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFNVRDAVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVPNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKIVPSILRIS SSDGKYKAFSTCGSHLAVVC
12770	43138	A	12848	1	636	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFNVRDAVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVPNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKKQIS
12771	43139	B	12849	180	811	
12772	43140	A	12850	1008	1265	FLGVPTLGGWRPIQHELK/PRE VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAKGIQNNITG GVYTLCDIDSHILFRSGY
12773	43141	B	12851	1	996	
12774	43142	A	12852	1251	1424	DSPRGEAES*A*LPEKLLEMSG NRLVDNKDPGKKQTQRRIPHSP SQIPVPLPEIWCT
12775	43143	A	12853	1	1121	
12776	43144	A	12854	189	621	
12777	43145	A	12855	2207	2308	
12778	43146	A	12856	1	762	
12779	43147	A	12857	1	678	
12780	43148	A	12858	3	496	
12781	43149	A	12859	107	258	NALGKRTSFTNRNFLASGRFLD SVTYARRLQQYPAPL*KTAI*SF SLLNH
12782	43150	A	12860	2	410	SPDPWVSTYKSTCHIAQEIAEKI HLRNQYERKGE*APRSNLMSE DANGGAPNPWLFEETIGW GFDEIRQQQHNIIR*QDAGLDA LSSIISRQKQMGIEIGNELHEQN EIIDDLANLMENTDEKLNETR RVN
12783	43151	A	12861	3	1402	

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12784	43152	A	12862	1	711	MAPDPWFSTYDSTCQIAQEIAE KIQQRNQYERKGEKAPKLTVTI RALLQNLKEKIALKDLLRAV STHQITQLEGDRRQNLDDLVT RERLLLASFKNEGAEPDLIRSSL MSEEA KR GAPNPWLFEEPEETR GLGF\DEIRQQPQKI\QEODARL DALSSISSQKQMGQEIGNELD EQNEIIDDLANLVENTDEKLRN ETRRVNMVDRKSASCGMIMVI LLLLVAIVVVAVWPTN
12785	43153	A	12863	1	936	
12786	43154	A	12864	1	1023	
12787	43155	A	12865	1606	2238	
12788	43156	A	12866	3	347	
12789	43157	A	12867	1	1665	
12790	43158	A	12868	1	589	
12791	43159	A	12869	19	1677	
12792	43160	A	12870	1	906	
12793	43161	A	12871	1	228	
12794	43162	A	12872	1	320	
12795	43163	A	12873	1	398	TSKAPGAQGEQGFEECFLAVAL AGRPLPSLWALFQATTPVLQG LKEAFFRPEVP\LRRLPLLLFR\ TQTSDPAMLP\TMIGLLAEARR AGCLSYQTSLSVSDGETWHVMG ISSLLP\SLEG\WKQ\HVTEAFQF HF
12796	43164	A	12874	3	322	SAGSGRRTLHSHRTMAQFVRN LVEKTPALVNAAVTYSKPRLAT FWYYAKVELVPPTPAEIPRAIQS LKKIVNSAQTGSKQLTVKVT G*MKTDVHNRKCLPLGFF
12797	43165	A	12875	91	425	WTFHPTTMAPFVRDLGEKTPA LGKAAVTYLPRLAAFYYYH QVELVPPTPAEIPRAIQSLKKIV NSAQTGSKQLTVKEALLNDL VATEVSTWFYVREITGKRGIIG* NV
12798	43166	A	12876	179	664	HSSPAVPGR TDFSHSQNPWPQF CPVTLVGEDPRALVNAAVT/YT RKPRIGLHFWYYA\KVELVPPT PAEIPRAIQSLKKIVNSAQGT LANSSHVKEAV/L*NGLVATEV\ LMWFLC SERLLGKRHSLGYG CFEDQSFNIWIFWILFILELFVW DHVVDPC
12799	43167	A	12877	25	164	
12800	43168	A	12878	2110	2260	
12801	43169	C	12879	32	1429	
12802	43170	A	12880	172	322	

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12803	43171	A	12881	1060	12039	
12804	43172	A	12882	1	810	
12805	43173	A	12883	3	146	
12806	43174	A	12884	1	1211	GPQDGNQQPAPPEKVGWVRKF CGKGIFREIWKNRYVVLKGDQ LYISEKEVKDEKNIQEVFDLSD YEKCEELRKSKSRSKNHSKFT LAHSKQPGNTAPNLIFLAVSPEE KESWINALNSAITRAKNRILDE VTVEEDSYLAHPTRDRAKIQHS RRPPTRGHLMMAVASTSTSDGM LTLDLIQEEDPSPEEPTSCAESFR VDLDKSVAQLAGSRRRADSDRI QPSADRASSLSRPWEKTDKGAT YTPQAPKKLTPTEKGRCASLEEI LSQRYAASAHTLQLRAEEPPTP ALPNPGQLSRIQ\DLVARKLEET QELLAEVQGLGDGKRKAKDPP S/RSPPDSES\EQLLL\ETER\LLG EASSNWSQAKRVLQQVREL RD LYRQ\MDLQTPD\SHLRQTTPH S\Q\YRKSLM
12807	43175	A	12885	617	1041	TTLINPGGPAPLLSLPTSSITGFT TFYHPNLKPLRTCPS*VQAWPC RHPI*SRDYQRDAEPTTCISKLL GENIRRDEFWKVQIKARSGETE QNPSTAFAGELPLANREELN LLNKGILPLCDQRQEIESECAF TIFCAGDANCFPPSPHTLPLTAL QQRPCGLSGSASKEAWGNSLV CGPRGDTLPMAIAKPHRSASKH STLHQYPTPPRSLCHQHRDEQP TNHLQTLNTIPAWHTKWVPGL DHINKPWRSCSSSQSAYLFYHW LHYFLPPKLKTSKDL SILSAGLA MSAPHLIFRVSAITSNSSCKPSS TSKACEELFKEHQCLGSTDPIH IQGGAPFSAVSPQRLVLRGSQD GSHMVRPRLPFPDSAGLANFHL FSKLFLD
12808	43176	A	12886	1	606	
12809	43177	A	12887	174	350	VSWRFVQVFI*V\AGGSRICAAA GLSPGTTPPCATSLIGACSLIFIP RLLSLFCGDEAL
12810	43178	A	12888	3	265	
12811	43179	A	12889	1	1209	
12812	43180	A	12890	53	369	VAHQEKGIAEPGLRPTGDSRQT HRRLDVERSTSVQEHMGGCHF SPFPEREKLSLTLRGIHQQAPAL WQATDQWIDIEF/GLGQPEESL GR*ITRLQGKTILPFGSPIC

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12813	43181	A	12891	1	345	
12814	43182	A	12892	2	451	
12815	43183	A	12893	2	286	
12816	43184	A	12894	217	1071	GENPRSENTRLATILEVACCHF GSSPPPS\GSSGRKDPPLTFGDH EGTSKAEPSPALGLTPEHKGNV GHAARIQQPGPLSLWSRKAGK GVQDCYIDLKQIKIDLDKFSDN PDGYIDVLQGLGQSFDLTWRNI MLLLNQTLTPNERSATITAARE FGDLWYLSQVNDRIAAEKREK FLTGGQAVPSVGSHWDTESEH GDWCCRHLLTCMLEGLRKTRK KPMNYSMMSTITQGKEENPTA FLERLREALRKHTSLSLDSIEGQ LILKDTFITQSAADIRK\NFKSPP
12817	43185	A	12895	1	756	
12818	43186	A	12896	473	1015	
12819	43187	C	12897	152	322	
12820	43188	A	12898	146	1079	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRHVNRRAA SNASVSLSTVTLFSRLS*PQRKG SELLDSSGPLPASPSLPLCSGVS PRAGLGSAWPKIPFLGIREAKN PRESENTRLATILEAGHRHLGTS VSKDHPVTFWRPRDLQSDLK QIKIDLGKFSDNPDGYIDVLQEL GQSFDLTWRDIMLLLNQTLTPN ERSATITAAREFGDLWYISQVV AAVAGLVSEAVKIIQGSYCVDI HDVNGILTAKGDLWLSDNHLL KYQALLLEGPVLRRLRTCATLNP ATFLPDNEEKIEHNCQQVIAQT
12821	43189	A	12899	189	1798	

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12822	43190	A	12900	194	1729	NPAAQTFFVVKKGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAEWFTVL DLKDAFFCIPVHPDSQFLFADF PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDTLVLQ YMDDLLLVTHTSETWCHQATQA LLNFLATCGYKVSQNAQLCS QQVKNLGLKLSKGTRALSEERI QPILAYPHPKTLKQLRGFLGITS FCRIWIPRIKAVKLQIILQMEPQ MQSMTKIYHGPLDRPTSPSSNV NDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLGKFSDDPDGYIDVLQ GLGQPYLTLWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
12823	43191	A	12901	1	642	
12824	43192	C	12902	54	254	
12825	43193	A	12903	32	221	NGVGHNRMGTTNGSGGGEWGAP PAPASA*GCSLASAFASASPRW WFEMGCRGIYDAQQVALSRSF
12826	43194	A	12904	203	538	
12827	43195	B	12905	131	536	
12828	43196	A	12906	1	1251	
12829	43197	A	12907	38	475	ESERRGEFCLCKIISEQGRAVCV EDEQTSHFALTGNNGIYRKSQQ QWQQELSDLARDPPAQCSAGP VGDDMFHWQATIMGPNDSPYQ GGVFFLTIHFPTDYPFKPPKVA F\TTRIYHPNINSNG\SICLDILRSQ WSPA FNQFPKSS
12830	43198	A	12908	282	849	QSCPAAGIISFGRTFEHTPREV RKPDDKHTLLALKRINKDLSDL ARDPPAQCS\AGPV\GDDMFHW QATIMG\PNDSPYQGGVFFLTIH F\PTDYPFKPP*GLHFTTRFY\HP \NINSKWA AFCLRYS*DSQW\SP ALTFSKVLLS\CSLL\CDPNP\DI DPLVPGDWHGSY*NRTGDKYN RISREWTQKYAM
12831	43199	A	12909	1	397	
12832	43200	A	12910	245	535	
12833	43201	B	12911	68	333	
12834	43202	A	12912	265	562	

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12835	43203	A	12913	1	872	MVNTECQLDWIEGCKVLILGVS KEASQGLGGRSRGRNVQRSTD ADIRPTSEKDARSLMTTRQEDN ISVDQRGFLSGVQKKSGCANG KGSVCGGFYWMAVIRMGVG KAMGLNLKLGKFEIKKGYLKG CRDSLRLSPTGFGKFTATSHEV AATVPIKVLELTLQTHKILRG VFAHLTSCQLHSLPPGSSMDS AKARRQLQVAGQGHSVLKQK GFHVEAPDHPVQLSDISCKSY RWGHKLIKINFLIPPLWYYDL EEVKREQSEEKQQA KIMADIIG DALNAQKAFKGNPKGHKPLPF SAGQMENW*CPECPSI
12836	43204	A	12914	7	231	
12837	43205	A	12915	1	223	MEILTTCDKGLIFTGNTRKSETS TSECTCPLDINCSLSHSPSPSDE ETQHHTDSLHVRPRKGYLLCIY HIPDIVAVMVNIQCQLDWIEGC KVLFLGVSVKVLPEINTGISGL GKADPPSIWKS*QHVT KDLYLQ VILENQKLVPANALVRWILTVP FPTLLRALQMRKHSTTLTVCMS DRGKDIYCASTIYQI
12838	43206	A	12916	1083	1273	NKMSFKLKEDCFGRSKCNL*T* CWKSINEA*K/DLELQLQFGPQE KLFALEQQVKKKLNLPDA
12839	43207	C	12917	1	1506	
12840	43208	A	12918	3	1219	
12841	43209	A	12919	1	735	
12842	43210	A	12920	2	94	
12843	43211	A	12921	362	460	WLILSVNLIGLKDAKYCSCVCL *GCCQRRLTF
12844	43212	A	12922	1235	1474	
12845	43213	A	12923	1	250	
12846	43214	A	12924	1	261	
12847	43215	A	12925	2	85	
12848	43216	A	12926	1	291	
12849	43217	A	12927	1	321	
12850	43218	A	12928	1	370	
12851	43219	A	12929	1	684	
12852	43220	C	12930	1	210	
12853	43221	A	12931	2	91	
12854	43222	A	12932	1	243	
12855	43223	A	12933	2	353	WMKLETIILSKLS*GQKTKHRM SSLIGSTDQQLVVKNVQGRVC PGSTGHGAWEAWTAMRKVDS PLQTGSLRPGWCRQVGSHARS GSAEAAGNPGLHPGICPRVEDG IQVAENFPEV

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12856	43224	C	12934	1	289	
12857	43225	A	12935	1	1194	
12858	43226	A	12936	140	237	
12859	43227	A	12937	1	292	
12860	43228	A	12938	2	178	
12861	43229	B	12939	1	1245	
12862	43230	A	12940	2	241	
12863	43231	A	12941	1	675	
12864	43232	A	12942	1515	1920	TPTNLQEKKNKQPHQKVGE GYE QTLLKRRHLCSQKTHGKNAHH HWPSEKCKSKPQ\WIPSISHQLE WQSLKSQETTGTWMKLETHLS KLLQGQKTKHHMFSLIGGNRT RRTHGHRKGNITLWGLLSDSV NCASSSG
12865	43233	A	12943	608	891	
12866	43234	A	12944	1	3956	MGSCPGGFTAEFYQRYKEELVP FLLKLFQSIEKQGTLPNSFYEAS IILIPKPGRDTTKKNFRPISLMN IDAKILNKILTNRQQHIKKLIHH DQVGFIHGMQGWFNIRKSINVI QHINRTNDKKHMIISIDAEKAF DKIQQPFMLKTLNKLGTWMKL ETIILSKRSQGQKTKHRMFSLIV NIPTIKILIKQNMAMETLCPIF KLEGDTMDNPIANRRVRTAVP TSVVCLHVGTEPEARLPHGPMI TAQSPFG
12867	43235	A	12945	1	855	
12868	43236	A	12946	1	255	
12869	43237	A	12947	273	3484	
12870	43238	A	12948	3	377	
12871	43239	A	12949	85	333	
12872	43240	A	12952	22	308	
12873	43241	B	12953	30	383	
12874	43242	A	12954	3	448	
12875	43243	A	12955	1	453	
12876	43244	A	12956	3	491	
12877	43245	A	12957	2	749	
12878	43246	A	12958	155	637	
12879	43247	A	12959	1	510	
12880	43248	A	12960	2	559	RPHASAHASGRQRSQDVTTMV WALLLLTLLTQGTGWSAQSA TQPPSASGSPGQSITISCTGLIND VASYNFVSWYQQHPGKAPKL MIYEVTKRPSG\VPDRFSGSKSG \NTASLDHLWGSRLDEADYYC LLICRRLHPGGGIRRWDPRTV LGSAQRPTPTVTSGSRPSSEGAP SQQGHTSVSDQ



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12881	43249	A	12961	1	1958	MSVQRKDRVRTQQGGSVASSM LTQEPVGSVALGQSARDRDPD CSDSVSVYLMDTWQSVIIGFAE SAATLGDPPELPMHPEGSEASY ELTQPPSVSVSPGQTARITCSGD ALPKQYAYWYQQKPGQAPVL VIYKDSERPSGIPERFSGSSSGTT VTLTISGVQAEDEADYYCQSAD SSGTYPTVTQADRETPTHQYSR HPSYAKGFVFLWGSWAQSALT QPASVSGSPGQSITISCTGTSSD VGSYNLVSWSYQQAPQGKAPKL MIYE/VDSKRPSGVSNRFGSGKS GNTASLTISGVPLRDEGDYY CCSYAGSVASYELTQLPSVSVS PGQTARITCSGDVLGENYADW YQQKPGQAPELVIYEDSERYPG IPERFSGSTSGNTTTLTISRVLTE DEADYYCLSGDEDNPSVTQAD GEDTGIRSHYEGTLALYLYPEP VKATCSVTSYVLTQPPSVSVAP GQTARITCGGNNIGSKSVHWY QQKPGQAPVLVVYDDSDRPSGI PERFSGSNSGNTATLTISRVEAG DEADYYCQSLSTLGPKTLGDTV LRPMIYSVSIQASGVPDGFSGSK SGNTASMTISGFQAEDEADYYC NSHRRGSVVSELTDQPAVSVA LGQTVRITCQGDSLRSYYASW YQQHPGKAPKLIYDGH
12882	43250	A	12962	2	367	
12883	43251	A	12963	2	376	QTYSLRRATPRHIVGFTKVEM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFQDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12884	43252	A	12964	2	1178	
12885	43253	A	12965	1	732	
12886	43254	B	12966	99	716	
12887	43255	A	12967	1	1011	

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12888	43256	A	12968	3	1263	GRTIQTKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERVSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTTPQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPINFIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
12889	43257	A	12969	1	1392	
12890	43258	A	12970	1	1224	
12891	43259	A	12971	1	970	
12892	43260	A	12972	1	954	MDGDLHKGVAVFWPPDAAGG HTCCRSMVCRSLLGGAQWKFH SFRCRIRFELILHMIQERNISINIS QKDVTETPSETHHHQRPKVD KSMKMRNQCKKAENSKNQK ASSPPKEHNSWRAREQNWTEN EFDKLTEVGFRRWVITNSSELK EHILTQCKEAKNLEKTLEELLT RITSLEKNINDLMKLKNTA*EL REAYTSINSQISQAEERISEIEDQ LNEMKHEHRIREKRMKRNKQS FQEIWDYVKRPNLRLISVPESD GENGNK*ENILQDIIQENFPNL ARQANIQIQEIQRTPQRYSSRA TPRHIIVRFTKV
12893	43261	B	12973	1	1346	
12894	43262	A	12974	1	318	GSRGELLLSLCYNPSANSIIVNII KARNLKAMDIGGTSDPYVKVW LMYKDKRVEKKKTVTMKRN NPNFNES\FAFDIP\TEK\LRETTII ITVMDKDKLSRNDVIGK
12895	43263	A	12975	17	389	SWGPHCTHKLKKSFSMLPEMT DAMDRERM/RGSKKDV/R*VLG GCAATWTPRAGGRQQSPGTTV DKREDTPDCAMCDQSTSHPIA SSPSLLPGSSFTTQTFFPGIAHYR ASFLIVAYYPSNKNK

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12896	43264	A	12976	84	282	GEGQVGWPQGEVQQDEEVIEE VGA*DAGSGYQEEEGPQSLRR EVVGVELVVGADPSGEGPKED
12897	43265	A	12977	1	1179	
12898	43266	A	12978	3	634	
12899	43267	A	12979	234	619	CYVVQEVLPSSLCHCLVICS RPGRTAEWPPG*GF*SPPHRGW GC*GHD/HRRGTSIFPTH/V*SPP ASYPGSLCRPGGQEERERE GEWQREGRRPGTR*CGAEAEARGW RAAAKATAVAGARNRRPGISG
12900	43268	A	12980	1	1182	
12901	43269	A	12981	3	763	
12902	43270	A	12982	32	949	
12903	43271	A	12983	1	1299	
12904	43272	A	12984	1	1176	
12905	43273	A	12985	1	421	
12906	43274	A	12986	81	404	VKFGPEIWCRRSDQGRGGVGT SLGRSIPCPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPEPLELWPKAL*LT PSQIYSA*RLKTDAARLP RKPPR
12907	43275	A	12987	1	378	
12908	43276	C	12988	1	751	
12909	43277	A	12989	302	629	ICLSYPAPPCKRFP PHYTRVLYH*SLFNENTS QSCFTSR/WKLESFT TRAIERHQIPLL*ATLTL IRWLDKKLAFQLLSLT ASFSPSYQSLPPTPPL KLPIISSHTRQMV
12910	43278	A	12990	14	380	
12911	43279	A	12991	189	608	QSDLSASQHG LFLATEVRSSGAASCP SDSICPAPT IAPGRATP PQANCWASEG TLRYQALPG NRAPVSQV SQAGGANLC VQPPKK HLTNFKSG KRPLFTLFS NLQGP RSRPVAF LSKQLDLT VLGWPSCL VQQLPP
12912	43280	A	12992	1	513	
12913	43281	A	12993	2	462	WSMGLPRRSGCVSLQPLSQEDL GRSQSESLGPEFQGLWEWLPEQ LPRSFIAQALGSLSYFPRTLMNLS WPLCLRKGWYL/SLYLPFQVGL PSTVPWPLILPSKVPEEEGQLQS TLPCGIKLLPVFTSHHAF LGVFCNQWVSDVFLALFLMKLLGAQ
12914	43282	A	12994	59	213	
12915	43283	A	12995	1	1159	
12916	43284	C	12996	1	864	
12917	43285	A	12997	1	1155	

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12918	43286	A	12998	879	1163	SRRLPLFMGLVRVLCKMSGRGP LCFPGGHWIVFLWGGTVLWLW T*SPHWHRKAN*DLFLQKLPRL *VSHQCDPCLPVCHLWNCLFLL PLWGPPAG
12919	43287	A	12999	1	179	
12920	43288	C	13000	1	410	
12921	43289	A	13001	42	365	FGLRLSLAPPFCMFPLTT*HS*P SVLPASFPAALGIPQARA VTPFV SP*LLASLSFWAPPSLCLDASV *HGSHLWHAQSSCRLRWSFGL AASQMQPEEPSHGPRRK
12922	43290	B	13002	1	741	
12923	43291	A	13003	8	265	
12924	43292	B	13004	1	646	
12925	43293	A	13005	1	1158	MKLVTIFLLVTISLCSYSGYWPE NEQMSVGGGDDNGEVLVSALR GASEVIGQCQSSATKPRRSGKE SVREPWARVPGALGVGVREID QTLGIDTILCHHHERLLQSHYGI HKSSLMSVGNSQVAALYQLNV YVVADTVGLIHKSNSILDSVQPN YCSNKHIELRTQVGGARNLRA NSPMTSSYNQESSMENVSALS LLTVESPTSMFDYCDDSLERVK SALDIFSMIITYVTFFLAGNG LVIWVVGFMSCVTNTCLPSDP HLHGPLTCDPVANLVLEQLHTS KGNsgaledLAFGNLFLCSLLD LQGNswWKVSPSLYNQYDLQ NETQGSHQLWKEIIPW*PSAFV V/SSGYWPENEQMSVGGGDDN GEV/RVFRPEGGFRGDRAVSF SH*AEKIWEGISQAL/VPEFQG LWEWV/CREIDQTLGIDTILCHH HERLLQSHYGIHKSSLMSVGNS QVAALYQLNVYVVADTVGLII KSNSILDSVQPNYCSNKHIELRT QVGGARNLRANSPMTSSYNQE SSSMENVSALLTVESPTSMF DYCDDSLERVKSALDIFSMIITY VTFFLAGNGLVIWVVGFM SCTVNTCLPSDPHLHGPLTCDP VANLVLEQLHTSKGNsgaled LAFGNLFLCSLLDLQGNswWK VSPSLYNQYDLQNETQGSHQL WKEIIPWHQTLVTTAHFFFGFF

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12926	43294	A	13006	3	371	AGARFNVRSH*RNDRVRPHRD VYSLQGRLSDHSPTFQGCQTTQ GRLPWSFTLSGKFRFSGEGATT SPAHKNFQTPEPQWPGIPPEPPP TGACYTCRKSGHWAKECPQAR IPPKPHPICVGP
12927	43295	A	13007	77	332	RWKNCLSPPRMS*QR*WKP* MQQAACSVGETQPPCTQVK*T ALLLTQSLFGGLFTRTHMKFGA VTRIGGPPLGDQSPVLLLFAP
12928	43296	A	13008	1048	1349	RVVEQDDAERLFRFRFAA/GDL PYGAFGEIF*ETQCQEMQQLAE DHASVTMISLEAWRLYRKMVC RIWASMLRLSVCHLCAPKR V SLISRNGYHLPGSIH
12929	43297	A	13009	213	499	PEQRTSHRQQRRQPPQSR*P FCPSLPRSALSFLCDGYAAP* AYRE*IPVTEHFAE*/ISWCPC *YREALGQLLAKMRR*SARKRF QLSP
12930	43298	A	13010	2	431	
12931	43299	A	13011	2	367	
12932	43300	B	13012	1107	2083	
12933	43301	B	13013	1	627	
12934	43302	A	13014	712	2671	AHVGRGST*ALPRAMGSDAF*C PLQ*MTPASFGSKAALS RVFIKE ALMMEDPCVVRKPLSAHMTA WWCRIWKAYLESV
12935	43303	A	13015	50	1362	WEQIPHGLVLSLQQLP RRSGSIS LQPLSQEDLGRSQSESLGPEFQ GLWQWLSDFQT*HQWVSGFQ AFSDRLKAALSASLLLRFGDSD WLPSSSACKCLMLGLHFVIVGN ICATLKEKYSSMLHLDVTMCK NGEKRTLQKRKKGMPPHPAY EDLNIAAITLPANVVLHQPSGFR TSGQLDPVWWSLDTDAHEIWC QDPGLGSGDFPWEITPLSSYSLL HEKDPPTTSGPQTDQPKKHLTN FKSKTKETGFIHGPKTPAPVTD WEGSLPLVFNHCRDTSIIHPCF KGVRRPRDACLGPSPLAASPAF LEKGQDLINLAFKVYNNRKKL QFLASTVRQTPATSPAHKNFQT TEPQQPGVPPEPPPTGACYMCR KIWPLGQANARSPGFLSRVPS VWDPTGNRTVQLTWQPLPEPL ELWPKALCLTDSFPDLLGLAA
12936	43304	A	13016	1	507	
12937	43305	A	13017	5	271	
12938	43306	A	13018	1	618	

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12939	43307	A	13019	1	429	
12940	43308	A	13020	1	3567	
12941	43309	A	13021	1	353	
12942	43310	A	13022	1	338	
12943	43311	A	13023	1	1175	
12944	43312	A	13024	3	326	
12945	43313	A	13025	150	494	PSPSLGYLVGTRGTALRL*DAR AAMRPFDPSTLLPTCWDYWTY AGSLTTPPLTESVTWIIQKEPVE VAPSQLSAFRTLFLFSALGEEEEK MMVNRYRPLQPLMNRKVWAS FQATNEG
12946	43314	A	13026	2	975	DSREHPLQTGVSGNRPKMLG RNTWKTSAFSFLVEQMWAPLW SRSMRPGRWCSQRSCAWQTSN NTLHPLWTVPSVPGGTRQSPI NIQWRDSVYDPQLKPLRVSYE AASCLYIWN TG YLFQVEFDDA TEASGISGGPLENH YRLKQFHF HWGAVNEGGSEHTVDGHAYP AELHLVHWNSVKYQNYKEAV VGENGLAVIGVFLKLGAAHHQT LQRLVDILPEIKHK\DARAAMR PFD PSTLLPTCWDYWTYAGSLT TPPLTESVTWIIQKEPVEVAPSQ LSAFRTLFLFSALGEEEEKMMVN NYRPLQPLMNRKVWASFQATN
12947	43315	A	13027	1	1233	
12948	43316	A	13028	761	1000	IPFISFSCIALARTSNTMLNKG ERGHPSLVPVFIGNASSFCPVSM ILAVGLS*IALIILRYVPSIPNLLR VFSMKGC
12949	43317	B	13029	697	1527	
12950	43318	A	13030	1	1695	
12951	43319	A	13031	434	925	VAKIFSHFVCCLFTLMVVSFAV QKLFSLRSHLSILSFVAIDFGVL DMKSLPMPMS*MVMPRFSSRV FIVLGLTFKSLIHLELIFV*GVRK GSSFSFLHMASQFSQHLLNRE SFPHCLFFSGFSKIR*L*ICGIISE GSVMFH*SISLFWYQYH AVLVT VAL
12952	43320	A	13032	1124	1234	KITPKKQIRQSPNLTQNTGQQ*S LQLWEHFQISTHF
12953	43321	A	13033	929	1261	
12954	43322	A	13034	1118	1354	IPFISSCLIALARTSNTMLNRSGE RGHPCLVPVFKGNASSFFPFSMI LAVGLS*IALIILRYIPSIPSLLRV FSVKGC

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12955	43323	A	13035	2	348	HQHLLFPDFLMIAILTGMRWYL IVVLICISLRASDDEHF/YHVS GCINVFF*EISVHILRPLFDGVV* FFLVNLFKFFVDSGYEPFVRWV DCKNVLPFCRLPVHSDGSFFCC AEAL
12956	43324	A	13036	578	712	LISNFSKVSGYKINVPKSQAFLY TKNRQTAKS*VNHSQQLQRE
12957	43325	A	13037	1	1833	
12958	43326	B	13038	1	1587	
12959	43327	B	13039	1	1851	
12960	43328	A	13040	1349	1444	
12961	43329	A	13041	953	1277	MVLPFRSSRVFMVLGLTFKPLI HLELIFV*GVNFV*GSSFSFPHM ASQFSQHLLNRESFPHFLFLSG LSKIR*L*MCGLISEGSLVFWWS ESLFWYQYHAVLVTVAL
12962	43330	B	13042	804	4236	
12963	43331	A	13043	1	744	
12964	43332	A	13044	137	797	
12965	43333	A	13045	210	418	
12966	43334	A	13046	1	927	
12967	43335	A	13047	1	1415	MGFLGTGTWILVLVLPQAFPK PGGSQDKSLHNRELSAERPLNE QIAEAEEDKIKKTYPPENKPGQ SNYSFVDNLNLLRAITEKEKIEK ERQSIRSSPLDNKLNVEDVDST KNRKLIDDYDSTKSGLDHKFQ DDPDGLHQLDGTPLTAEDIVHK IAARIYEENDRAVFDKIVSKLLN LGLITESQAHTLEDEVAEVLQK LISKEANNYEEDPNKPTSWTEN QAGKIKEKVTMAAIQDGLAK GENDETVSNTLTLTNGLERRTK TYSEDNFRDFQYFPNFYALLKSI DSEKEAKEKETLITIMKTLIDFV KMMVKYGTISPEEGVSYLEGL DEMIALQTKNKLEK\NATDNIS KLFPAPSEKSHEETDSTKEEAA KMEKEYGSLKDSTKDDNSNPG GKTDEPKGKNRSPIWKPIRK\NI EWLKKHDKKGNKEDYDPFQR* EVSFNNKADA\YVEKGILDKEE AEAIIKRIYSSL
12968	43336	A	13048	1	879	
12969	43337	A	13049	3	640	
12970	43338	A	13050	134	382	DGRQLRRGSLGGALTGRYLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPSLTASLPCVSKCW ENIPPWMN/WPPH*IKHIQS
12971	43339	A	13051	87	500	

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12972	43340	A	13052	1	1356	
12973	43341	A	13053	1	447	
12974	43342	A	13054	3	107	
12975	43343	A	13055	3	2377	
12976	43344	A	13056	1	2193	
12977	43345	A	13057	1	2724	
12978	43346	A	13058	253	490	QSSIPAIMSSFLGTGAETMPVPL GAGMRRTSTEPQRVCFTGIIF KTSSLREAPRKKSMISD\$LMGR E/WMPVTKLGR LVKDMKIKSLE EIYLFSLPIKESEIIDFFLGASLKD EVLKIMPVQKQTRCGSVLVRLI PAPRGTGIVSAPVPKLLMMA GIDDCYTSARGCTATLGNF/AK ATFDAISKTYSYLTPDLWKETV FTKSPYQEFTDHLVKTHTRVSV QRTQAPAVATT
12979	43347	A	13059	1	819	
12980	43348	A	13060	1	623	MARRKNGKWESEIIDFCLGGSL KDEV LKIMPVQKQTRAGQCTR FKAFVAIGDYNGHIGLGIKCSK E/LATAIRRAIILAKLSIVPVCRG YWG NKISKPHIVPCRG TGIVSA PVSKLLMMASINDCYTSARG CTAILGNFDKATFDAISKTYSYL TPNLWKETVFTKSPYQEFTDHL VKTYTRVSMQSTQAPALAKLP RVAVQPRAEV
12981	43349	A	13061	1	949	KWRITPVPTGRP/GGPGGPGMG KPRCF/RGEVFGIVIRAGSPGPG TGPGRG\GEAAGAKAED*E\WM PV\TKLGR LVKDMKIKSLEEIYL FSLAIKKSEIMSFLGGLLSRDE VFE*LCPVQE Q\TRAGQ/RATRF KAFVALTTLGTTNG\HVGLGC* VPPREVATGNSWGPFILGQALH SSPVRRGLLGGTKNSAKPPTLV PWQR*PRAACGLCAGYAFIPLQ PRGQLASVSA\VPKLLMMA GTDG\CNNSQRRGCTATVG\NL AKATTFDAISKTYSYLTPDLWK ETVFTKSPYQEFTDHLVKTHTR VSVQRTQAPAGATT
12982	43350	A	13062	92	265	SFELFADKVPKTA/WLDGKHVV FGKVKEGMNIVEAMERFGSRN GKTSKKITIADCGQLE



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12983	43351	A	13063	2	797	NRVLLAMVNPTVFFDIAVDGEP LGRVSFEVRGLDTKK*LLI*SIK LC*QIG\LFADKVPKTAENFR/A L*SIEEKGFGL*GVPCFHRLFPR VLCVRGGDFHTAINGT\GGKSN YGEK\FEDENFILKHTGPGILSH GKMLDPNTNGSQFFICTAKTE WLDGKHV\VFVKVKEGMNIVE AMEA\FGSRDCKTSKKITIA\DF GQLRIKFDFVFLSLTTKIISFCAL LSGEHPLHPWLGVILESMWLS LAVPFWVPCFPCSLPCLAGLQS
12984	43352	A	13064	1	720	
12985	43353	B	13065	98	2074	
12986	43354	A	13066	596	841	
12987	43355	A	13067	66	326	
12988	43356	A	13068	1	441	
12989	43357	A	13069	2	325	WCPSQAAAAGARATRDMPEGS MTCLCRALWWLFSWLKVHR*R QQQQGRPAAPSAGPAKPTPTRN SSWLLLAAPVPTRTSPSTPPCKL REPAPALASPERGSHSAAVG
12990	43358	A	13070	38	1066	
12991	43359	B	13071	1	324	
12992	43360	A	13072	2	680	
12993	43361	A	13073	2	165	
12994	43362	A	13074	1	1110	MASLLKSARPTQTHWKEETPETS KRLKEQTPDIPSLRAVTLIAKVH SFIPEVCETKNPLEGIHSGHILAP NVGPPSPRRQARVQVFENVSVR ATKSDLPPQSSLWSRRKTTVSAA ASKKTSKEISKGPQKPPGY/PVT SPSSCRGRGIWPNP/EYMSTSPS LI*/SQIKVDLGKISDDPDRYIDV LQGLGQTLDLSDRDVMLLLDQ TLAFNEKNAALAAQEFQDWTW YLSEVNDRMATAEERDKFPTED GEPIKCDCCQIIVQTYAAQDDIL EVPLANPDNLTYDGSSSFVENG IRRAGYAIVSDVTILERPFLFRA IQQVVKACEVCQRKNPLVHPP NYLYKTLNLTHSLLNQSNPSLA NDCWLCSSLSVSAEPYN

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12995	43363	A	13075	450	1776	RGGRACLRP*AA/SPGPSTP*WP PPRGVQAAAILSGPPRPAPPKG AASQRLCGGFVEARQAWVGRR GGRRGPVGETQPPPSVIQPPSRG AG/PRDQQPAMPEPPTPSVGSC AARASQISAAPCSTAPSPIDHPR AECCRRTVWDWQAAPPAAQV RDPLGEASWAPESGGDVENLY VLLRDCKYTSQHPVSSSGSVNA PIDTLYLATLLRDCKYTNRHSV SSSRFVNTPISTVSSEFANAPID TLHLATLKEETPNTSEHQKEQT PDMPLRTVTVTARVRGFILDV SETKNPPIPDTFWRPRWDLRQS PSNQTLAFNEKNAALAAAQEF GDTWYLSQVNDRMTAEERDKF PTEFIPSSGFLVLLTSRMKPQTF AASVTALKDGVSRVCSFRCVQS FFLPSADWCYKPLARYRALIG AFLQSAHWCVYKPLARHSVLI GAFTNL
12996	43364	B	13076	1	1999	
12997	43365	A	13077	3	469	
12998	43366	A	13078	224	410	
12999	43367	A	13079	478	675	
13000	43368	C	13080	55	237	
13001	43369	A	13081	109	239	
13002	43370	A	13082	2	88	
13003	43371	A	13083	2	178	
13004	43372	C	13084	278	460	
13005	43373	C	13085	50	217	
13006	43374	A	13086	3	251	
13007	43375	A	13087	1	759	
13008	43376	A	13088	2	604	
13009	43377	A	13089	1	558	
13010	43378	A	13090	3	1055	
13011	43379	A	13091	1	466	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAINSLPTKKSPGPD GFTAIFYQRLISNFSKVSGYRIN VQES/QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRNIVKMAILPK
13012	43380	A	13092	2	848	
13013	43381	A	13093	458	625	
13014	43382	A	13094	482	745	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13015	43383	A	13095	1	742	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIWHINRTKDKNHMIIISDAE KVFDKIQPFMLKTLNKLIGDG TYLKILRAIYDKPTANILNGQK LEAFPLKTGTRQGCPSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKPSLFADDVIVYLENPIISVQ NLLKLISNFSK\IKYLG IQLTRNV KYLFKENYKSLLEIKEDTNK WKNIPCSWIGRINIVKMAILPK
13016	43384	A	13096	1	1458	
13017	43385	A	13097	2	1624	
13018	43386	A	13098	1	1095	
13019	43387	A	13099	1	2913	
13020	43388	A	13100	2	1887	
13021	43389	A	13101	1	972	
13022	43390	A	13102	1	873	
13023	43391	A	13103	1	1365	
13024	43392	A	13104	1	867	
13025	43393	A	13105	1	591	
13026	43394	A	13106	1	990	
13027	43395	A	13107	1	2109	
13028	43396	A	13108	1	843	
13029	43397	A	13109	1	1203	
13030	43398	B	13110	1	1221	
13031	43399	A	13111	1	1092	
13032	43400	A	13112	1	931	
13033	43401	A	13113	1	1293	
13034	43402	A	13114	1	544	
13035	43403	A	13115	3	718	
13036	43404	A	13116	693	1397	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLKLLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYRF SAPIKLPMTFFTELEKKNWLAI CRKLKLDFFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATKAKRA SAQQKKLPSE
13037	43405	A	13117	1	2814	
13038	43406	A	13118	1	1302	
13039	43407	A	13119	1	1542	
13040	43408	A	13120	3	1327	
13041	43409	A	13121	1	1023	
13042	43410	A	13122	1	1448	
13043	43411	A	13123	1	1038	
13044	43412	A	13124	3	1711	

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13045	43413	B	13125	1	1756	
13046	43414	A	13126	1	923	
13047	43415	B	13127	1	1515	
13048	43416	B	13128	1	1560	
13049	43417	A	13129	1	4032	
13050	43418	A	13130	1	2684	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DTFLDITYLPRLNQEEVESLNR PITGSEIVAIINSPLTKKSPGPDG FTAIFYQRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTKNRQTESQLMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWNI PCSWVGRINIVKMAIL\PKVIYR FNAIPIKLPMTFFTELEKTLKFI WNQKRARIAKSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIIPHIYN HLIFDKPEKNKQWGKDSL FNK WCWENWLAICRRLKLDPFLTP
13051	43419	A	13131	1	1149	
13052	43420	A	13132	127	329	
13053	43421	A	13133	1	1132	
13054	43422	A	13134	1	1020	
13055	43423	A	13135	803	2009	
13056	43424	A	13136	1	1944	
13057	43425	A	13137	1	1282	
13058	43426	A	13138	1	2423	
13059	43427	A	13139	1	2694	
13060	43428	A	13140	1	1195	

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13061	43429	A	13141	6082	6984	KLAQDRDALSPPLLFNIVLEVL ARAIRQEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVASAPKSPL RLISNVSKV*GYKINVQKSQA FLYTNNTDKQESQIMSELPFTT ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVN\YRFI NSMPSIPIKL\PMTFFTELEKNYF KVHMEPKKSPHCQVNPKTKEQ SWRHQRYLTSNYILQGYSNQK STISMVLVPKQHGTGKTEIIDQ WNRTEPSEITPHIYNLIFDKPL LEKNKQWGKGFP
13062	43430	A	13142	193	335	MVEEKLTLPKDEK*KSKQRSIY RKTQLQELKNKNEKRNKRNK QVKTH
13063	43431	A	13143	131	427	
13064	43432	A	13144	1	360	
13065	43433	A	13145	2	376	
13066	43434	A	13146	1	360	
13067	43435	A	13147	2	376	
13068	43436	A	13148	3	469	
13069	43437	A	13149	224	410	
13070	43438	A	13150	478	675	
13071	43439	A	13151	32	161	
13072	43440	A	13152	1	1671	
13073	43441	A	13153	1	1656	
13074	43442	A	13154	62	1295	
13075	43443	B	13155	149	320	
13076	43444	A	13156	12	89	
13077	43445	A	13157	28	417	
13078	43446	A	13158	2	440	
13079	43447	A	13159	190	553	EIVREGASFSSIRHLRWSRHRKC RFSVKTLTGEDPSTLEV\EPS\DT IE\NVKAK\IQDKEGI\PPDQQL/ VSFAGKQLAEDGRDSLGSY\NIQ KGSLLLHPCV*DFRGGAKKKEE ESLYTTSPRKD
13080	43448	A	13160	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPGVPRTHPVVIFPVPECRIG RDILSSWQNPHGTSLTGRVRAF MVGKAKWKP*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRRG VVIPTTSRFNSPIWPVQKTDGS W*TAADY

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13081	43449	A	13161	5	405	HCCGIPHSIASEQDTYFMAKEV WQWAHAHGIHWSYHVPHHLE AAGLIEQWNGLLMSQLQHQLG DNTLQGWGKVLQKVYALNQ RSIYGTVSPIARIHGSRNQGEV EVALLTVPNDPL/GKY*LPVPV TLHSDR
13082	43450	A	13162	138	387	
13083	43451	C	13163	184	297	
13084	43452	A	13164	1	430	
13085	43453	A	13165	1	867	
13086	43454	A	13166	35	601	CLSRRASPVYLASMSGRGKTG G\KARA\KAMSRSSRAGRPSQ VGR\VRHLLRKGHYAERV\GRR QPCCYLGG*CMEYLT*ESWS MAG\NAARN\NKKTRIIP\RHLQ\ LA\IRNDEELNKLAWAALTIAQ GSR/VLPNIQARCCGPR*TSATV G\PKAPSGGEERATQASARSTK RARAAAGRPSVPMPPQRP
13087	43455	C	13167	11	313	
13088	43456	B	13168	1	552	
13089	43457	A	13169	1	621	
13090	43458	A	13170	55	296	
13091	43459	A	13171	959	1182	WVYLF*PSCKGVIYP*AAGFESI FWWVTINKNIDWINIYYNQ QFMNYTRDAVKGIAEQLGTNC QMAWENRIALDMILAERGGVC IMIKTECCAFIPNNTAPNGSITK ALQGLTALSNELASSGVNDPF TGWLEKWF GKWKGITASILTS TAVMGVLILVGCCVIPCICGLV QRHRGPPLVVIETKPLGLERLA GLPVGHALKLGSGIQATPQNGE NADRREAFPAAS
13092	43460	A	13172	1	540	
13093	43461	A	13173	2	142	
13094	43462	A	13174	42	384	
13095	43463	A	13175	102	329	
13096	43464	A	13176	1	1257	
13097	43465	A	13177	1	378	
13098	43466	A	13178	1	1143	
13099	43467	A	13179	1	481	SDSELNRPRVTMKNPFVTSR SKNRKRHFNAPSHVRRKIMSSP LSKELRQKYNVRSMPIRKTDEV \QVVRGHYKGQQIGQGSRCR KKYVIYIER\VQREK\ANGTNCS TWGISPKARWLFTRLKLDKDR KKILERKAKSRQVGKEKGKYK EELIEKMQE

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13100	43468	A	13180	39	556	AAAGYFAEDCEASCVCVKHPP SVKKARCFELSELIKPSGGSVTL SESTAIISHGTTGLVTWDATLYL AEWAIENPAAFTNRTVLELGSG AGLTG/VAICKMYRPRAFIFSDC HSRVLEQLRGNVLLNGLSLEAD ITANLDSPRVTVAQLDWDVAT VHQLSAFQPDVVIAADVLY
13101	43469	A	13181	46	231	
13102	43470	A	13182	1	1503	
13103	43471	A	13183	3	340	FFFANTFYCVFNVLVNAPLRFL SLPSTQSLEAKLRDSSDSELRRD ILQKVRIPELGLMTLPPELRLK T*EKNRRCACTL*K/TPVQRTKP LSQHCRWVWAPPTAPALSFSKT
13104	43472	A	13184	2	594	
13105	43473	A	13185	1	1470	
13106	43474	B	13186	79	1355	
13107	43475	A	13187	248	540	
13108	43476	A	13188	386	1388	
13109	43477	A	13189	386	1334	
13110	43478	A	13190	3873	4070	
13111	43479	A	13191	146	510	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRNVNRAA SNASVSLSTVTLFSRLS*PQRKG SELLDSSGPLPASPLPLCSGVS PRAGLGSAWPKIPFLGIREAKN PRSENTRLTT
13112	43480	A	13192	21	95	KCSSNGAPDAVHE*DLPWTPGP AC
13113	43481	B	13193	1	477	
13114	43482	A	13194	228	935	PLSSSMAAELEFAQIIIVVVTV MVVVIVCLLNHYKVSTRSFNR PNQSRREDGLPQIMHAPRSRD RFTAPPSFIQRDRFSRFQPTYPYV QHEIDLPTISLSDG\EEPLLYQV PCTLQLRDPEQQMELNRESVRA PPNRTIFDS\DLIDIAMYSGGPCP PSSNSGISASTCSSNGRMEGPPP TYSEVMGHHPGASFLHHQRSN AHRGSRLQFQQNNAESTIVPIK GKDRKPGNLV

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13115	43483	A	13195	526	1629	FYSFDSARGEPARPWRVRGLEG RVELGQQLGLLTLGPAFPGGLG GTQRVGLPGPAGPGAGEEGQA GPAEAGQVPVGGGLADEAVEHG VGDAVEAGEQEGEVVGVENAL GEVAAGLPDAAHQQQHVVGQ EAGQEDDHGAHQPLDLVLA LLGAVAPAHGAQDALVGRQQ QADGEEEE/LPGSGSS*WHAAM PGWGSQAQSTRGAGSRPR*PPRA SGSRCWSAAPWPR*PR*RRRPP SGSGTGGSGRDGPQPGSGPR/T MQQRKPTLM*MFSYRR\IRTPG RTGRRETSCRAAARTAAARRA SRCRRGRPPSGCTGTRPARSGP* SAGS\VEVEGQAVGREAHQHGH NIDHRGQRLVDGMVDGTAHRG VVCSDVPH
13116	43484	B	13196	2699	7361	
13117	43485	A	13197	67	1523	
13118	43486	A	13198	1	287	
13119	43487	A	13199	2	563	
13120	43488	A	13200	96	401	
13121	43489	B	13201	1	480	
13122	43490	A	13202	1	924	
13123	43491	B	13203	13	1512	
13124	43492	A	13204	1	402	
13125	43493	A	13205	609	803	RDPRHNPSSA\FQAGGIALMLI TRGEDLTGGVIHQYPGPGMNL WMQGTAGNQRRRAAENAAQQQ
13126	43494	A	13206	3	526	VTETALTLPYLVAKHGYFLPQD LAKRTETMNWFLWLQGAAPFL GGGFGHFYHYAPVKIEYAINRF TMEAKRLLDVLDKQLAQHKFV AGDEYTIADMAIWPWFGNVVL GGVYDAAEFLDAGSYKHVQR WAKEVGERPAVKRGRIVNPTN GPLNEQLHERHDPSTFQTNTET NNRQG
13127	43495	A	13207	1	250	
13128	43496	A	13208	1	489	
13129	43497	A	13209	209	601	
13130	43498	A	13210	1	96	
13131	43499	A	13211	1	1110	
13132	43500	A	13212	1	595	
13133	43501	A	13213	1	240	
13134	43502	A	13214	1	675	
13135	43503	A	13215	1766	1957	
13136	43504	A	13216	1	426	
13137	43505	B	13217	94	3238	
13138	43506	A	13218	1	2370	



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13139	43507	A	13219	1	2796	
13140	43508	B	13220	43	566	
13141	43509	A	13221	1	903	
13142	43510	A	13222	3	110	
13143	43511	A	13223	2	755	
13144	43512	A	13224	1	1338	
13145	43513	A	13225	1	807	
13146	43514	A	13226	1	918	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDAC\LSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPA\VP TSLKWWKTGP THC WPMA*KA*SVSP\RRSDGIRSKN DVIDTSDDDM**QCLSRRSNIG HPGAKVANLVPKTTFIDGVDQT SFFLTNGQSNRKA EHYFLNGK LAAVRMDEFKYHVLIQQPYAY TQSGYQGGFTGTVMQTAGSSV FNLYTDPQESDSIGVRHIPMGV PLQTEMHAYMEILKKYPPRAQI
13147	43515	A	13227	1475	2904	FWRAAAPIPDCWRSGAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQQPYAYTQSGYQGGFTGTV MQTAGSSVFNLYTDPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRRTGFI FGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLT VVFFPVLH KQAFDLISLLLQQPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGS LPELHQA WQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRILTRS QLORLQ LAWPQQQGRYPLTYHLFLGVI
13148	43516	A	13228	215	525	LAWARRCRLLAKATSLIRAPS SEMRASTPCRGRQRRPSGYSWY GRSPRAVLEGLRVGAHL SRAN CPWPSR/SQVVELIPDGFVFLD FTKIPGRDTQNEHIVLLH
13149	43517	A	13229	1	942	
13150	43518	B	13230	1	1201	
13151	43519	A	13231	685	921	

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13152	43520	A	13232	2	251	
13153	43521	A	13233	2	100	
13154	43522	A	13234	5	1093	
13155	43523	A	13235	2	482	
13156	43524	A	13236	1	2496	
13157	43525	A	13237	572	912	RCRPDKAFTPHPAIGARCLMRR LRVLSCLQPLPNVGWIRRLRRIR QFSAPDEGA KCRVAILQ/DFDA QYGRFLEVTS GAQQRF EQTD*K HAAALPFFFPSSAYS LA AISVVF GFR
13158	43526	C	13238	5	127	
13159	43527	A	13239	1	444	
13160	43528	A	13240	17	261	
13161	43529	A	13241	173	397	
13162	43530	A	13242	169	421	LKPKNLDEKLLPASSSSCRIWA TSPVHHLWQVLKKILFGWNPT KSPRCLS/TRQAMFSLSKKASLP WTIAARSADQRCRTRIAEL
13163	43531	A	13243	17	744	RPHQEQR IAGCGVNALSSLRSA TAVGMIRRASVASG/DRAPIAG CGVNALSGLHRHFIEVTCTHFL LVRYEGIAIFRGGKFRLLHFLN VVLHTLALGIGVCQVKHVEPH AVDTCQGDELELVAHIRQLLLE AGNSFVVEVYLPVERRRAVISQ QFARIFRVD SLCKATRQFQIRRG RSHQTGQHMGIRRQVDAAHAD DRRTSGRVPPLIQVCPAHSSEA VVVVDVDVDVDVDVDVDVIGAV
13164	43532	A	13244	954	1104	
13165	43533	B	13245	54	1169	
13166	43534	A	13246	35	3066	VGHSTRPAASPGPAAGIGRSPA RLVQQPQRS LA KPLNRPAQQR GLLPQRRHPKTRKRRKQAQN PQKRLPHRQPVRRRHRHRRLL QKMRRPDKRQQRR A A PRRHPR RRQRL LAVRRRQLRAKVRRNP RQRAPRQQLNGQRI LHPPWRLR MQVRRKRG*YSSA VRPTVRLK RWRQRQRQ*NQPM TMQRNVC RKTRTALIYP/YKGCFLNNINAV SKTDFADKRG MRYVRVNAPAG ATSGKYYPVVVMRSAGSFHI
13167	43535	A	13247	1	2919	

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13168	43536	A	13248	1	3211	MEFTSLTPDDLRLVLELYRTPFS DGYVFHSMQFHIFDLLKSGQN VVL SAPTSMGKSAIVDSL LGMG TLKRLVLVPTVALADETRRRL QERFGDRYQIIHSSQVCHSDQ AVYVLTQERVNERDDIVIDILF VIDEFYKLA FRQLKSGDIDHQD ERVIELNIALSKLLK VSRQFYLT GPFVNSIRGLEKLGYPHTFVST DFNTVALDVKTSASKRMTTKP SSKRWGKSRTCVDADHIKNGIG LHFGALPRALQQYT
13169	43537	A	13249	486	3882	LRLRGEALPVASGCLANATDTP AGTTLWADTERHAVQ**TCEA DTLGSCGYAAKPC LSPVAVWQ MLLTRLLEQHYGLTLNDTPFSD EPVLTAPIDAAALRGIEFGKFQL GNMVVGDIIECGSDVTDYAVG DSVCGYGPLSETVIINAVNNYK LRKMPQGSSWKNAV CYDPAQF AMSGVRDANGARRGFWWGGL GAIRVQLAFKWLNAAGRLPGG GLGGPIPYSAHRCDIARRHGAD FCLNPIGTDVGKEIKTLTG
13170	43538	B	13250	1	1116	
13171	43539	A	13251	729	985	SAPPQLAPSLPDRATDPDTCWP PG*RP RYLPSRQIDCFNTRFRL QRLTASQCAEAVDVAFFRLTV QQTPHFRCAQLRQRAFRID
13172	43540	A	13252	395	605	
13173	43541	A	13253	1	1140	MIYVFVTVKHRNDHFTKNTLA SYRGRTLLGTLFKGVYHLYKD ETYLYQSGKGHTIQEVRIKGL NNPDLDAAVGEDLAQQLRDEL ELVKGASNEFDKELFLAGEITP VFFGTALGNFGVDHMLDGLVE WAPAPMPRQTDTRTVEASEDK FTGFVFKIQANMDPKHRDRVA FMRVVSGKYEKG MKLRQVRT AKDVVISDALTFMAGDRSH/AY PGDILGLH\NHGTIQIGDTFTQG EMMKFTGIPNFAPELFRRLK DPLKQKQLLKGLVQLSEEGAV QVFRPISNNDLIVGAVGV LQFD VVVARLKSEYNVEAVYESVNV ATARWVECADA KKFEEFKRKN ESQLALDGGDNLAYIATSMVN LRLAQERYPDVQFHQTREH
13174	43542	A	13254	1	1495	

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13175	43543	A	13255	372	1365	IRYFENRGLFAHCATRTGQFPP HCILASYKCGEQPDSSSNHPRN LFVWRSNLLGSSGKKGHEYMQ KYLGTESGIQGEELGASDGIKP EEVEWQTAAIEGKLDLLVTLDF RMSSTCLFSDIVLPTATWYEKD DMNTSDMHPIHPLSAAVDPA WESRSDWEIYKGIKAFSQVCV GHLGKETDVVLQPLLHDSPAEL SQPCEVLDWRKGECDLIPGKTA PNIVAVERDYPATYERFTSLGP LMDKLGNGMDLTDYANMALSI PSANTDIWNLEQDTVGTRLTNS RHGLADNGGAWVSFYGGNFN GDNGTINYDQDVNGIMVGVD T KIDGNDG
13176	43544	A	13256	3	1444	
13177	43545	A	13257	61	1058	LPYLIALLARAWFNGLLTSRTR LYIKGNIGVDLPKLQEMVADVS HHFPLRLPAPTPKALYSPCEIRH LAINVNLEYDPTAAFRNQVVHF DFRKLDFVSFGENQNCLVGNV DLLAYRNSWNEVRTLHFNGEQS MIEALKTILGKMHQDAAPPDSV EVFCYSQHLRGLIRTRVQQLVS ECIELRLSSTRQETGRFKALRVS GQTWGLFFERLNVSVQKLENAI EFYGAISHNKLHGLSVQVETNH VKLPAVVDGFASEGIIQFFFEET QDENGFNIIYLDENRVEVYHH CEGSKEELVRDVSRYSSSHDR FTYGSSFINFNLQDPYLRARVSI
13178	43546	A	13258	1	1133	
13179	43547	A	13259	2	240	ISSARHFGALACTLELGKALTF GQNDLRQFAVTASAIAALL/SR HSPSFEMHMASDTLNFMPFEK GTLLAQDGEERFTVTH
13180	43548	A	13260	1	358	LPFLPSGLRGLAAENKIRRP HSA GSFLGPPCGLRGKLV/ISAAALM STTIPISRVQGLLQFLNSKSPISR AERSWSTFGASAAFLTTLASLL FLFPPLAISSLANSFAKVFPPTPC AGSP
13181	43549	A	13261	1	1635	
13182	43550	A	13262	1	1363	
13183	43551	A	13263	5	249	
13184	43552	A	13264	15	280	
13185	43553	A	13265	6	363	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13186	43554	A	13266	78	346	TRYAMLTRHDNHL SKFY LARG RYRADFHAPETNTGERCYRYK PLPYWLE*RRGRNRYPALQ*TM FLPADGPARCLSRQAAILKESV LPK
13187	43555	A	13267	568	831	ELQRHVLVVFAGFWIVKNSRN LFLVCRAEHKRSVVKGLLRQQ GQGFWFHFQDGF AVEVG NAN VIGSE*IVFGIVFPHRERCLVDK
13188	43556	A	13268	3	419	
13189	43557	A	13269	1	561	
13190	43558	A	13270	1	741	
13191	43559	A	13271	2	1040	
13192	43560	B	13272	1	1974	
13193	43561	A	13273	2111	2340	EVFIRDKLMERRNRRTGRTEKA /RDRTVRTWIGEA VAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPVKVLQSQCI
13194	43562	A	13274	470	813	KTTSFPAKLFNACRISLLASAEV NPNISAYLATWISQIPSCSCRVP SDFLIWSTNRY SIRF*SRERLVG EAVA/AAAADGVTFSVPVTPHT FRHSYAMHMLYAGIPLKVLQS LMGH
13195	43563	C	13275	440	1180	
13196	43564	A	13276	1	1290	
13197	43565	A	13277	1	1036	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMENTS RDRFEQ RGFEPDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KDPRPLPYLGHDEPYTFDINLS VNLKSMVVG GTDMGQEPLKQ MGAWGPLSLKAMFGFFIRGYG FFTPFGRTLFP LGFGSTPPFTFPL LTKTIGVFILDKLMERRNRRTG RTEKARIWEVTDRTVRTWIGEA GAAAAADGVTFSVSVTPHTFR HSYAMHMLYAGIPLKDLQSLM GHKSISSTEGYTKDFSLDVG\AR HRVQF\AMP\ESDA\AMLKQLF
13198	43566	A	13278	366	672	RNGTHPRYIEA VPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSRLALRELQQAV HAGLPQQA KILFDGGSEIGKIPH IVLYKPVQC SLWAFVH
13199	43567	A	13279	2602	2976	
13200	43568	A	13280	982	1347	
13201	43569	A	13281	1	780	
13202	43570	A	13282	568	891	

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13203	43571	A	13283	1	718	MKEKPSSPRQYSYSLSSMILLG GGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEVYTKVFALDVAAPHPESTP VHLPSPRENKIPPPIMRIPCGLPTS PIEQKQGKISATGTQWRLKQE TRLSSVSARLMSYVGVMC
13204	43572	A	13284	1	496	AMFGFFIRGYGFFTPFGRTLFP GFGSTPPFTFPLTKTIGVFILDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAGAAAAADGVT FSVSVTPHTFRHSYAMHMLYA GIPLKDLQSLMGHKSISSTEGYT KDFSLDVGARHRVQFAMPES DAVAMLKQLF
13205	43573	A	13285	2	545	
13206	43574	B	13286	1	735	
13207	43575	A	13287	1	1599	
13208	43576	A	13288	583	1005	
13209	43577	B	13289	31	1239	
13210	43578	A	13290	1	1023	
13211	43579	A	13291	1	933	
13212	43580	A	13292	1	1278	
13213	43581	A	13293	1	705	
13214	43582	A	13294	2	893	
13215	43583	A	13295	88	429	
13216	43584	B	13296	1	1419	
13217	43585	A	13297	1	2784	
13218	43586	A	13298	163	416	RNGTHPRYIEAVPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSRALRELQQAV HAGLPQQAKILFDGGSEIGKI
13219	43587	A	13299	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSFLFLEAACHDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQPSPPLGIPHPSLLTAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13220	43588	B	13300	1	858	
13221	43589	B	13301	1	1098	

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13222	43590	A	13302	1	1047	MNRQLSDSYTEDTKEPSDVTTS ERTRSPPGSAKTTMIDTLKKLQ DVLKTEDSKNPTKSAADLLEQ YVKATGPIIEILQKATKTMEMI MIVEEKASDELQDPPELQQRYI HSVRGKPGLVKQRTQEIETRLR LAGLTVSSPLKRSHSLAKLGSL TFSTEDLSSRPPGPPGPPGGLHP GPPRRPPPKLPPAPPGCSVHC CHYPLHFVVSPLGIFYCSLMRI QIVFVTAFFVHDSALLPLDASL APEALQNFQRYTGIQHVHRIGM AERMWCDNRNRHTVSSSGGN RLPNAPLPNPGVLSAPPNLIQR PKADDTSAATIEKKATATISAK PQITNPKAEIT*NPRVWQGSWI GEAVAAAAADGVTFSVPVTPH TFRHSYAMHMLYAGIPLKVLQ SLRSQ*SVRGKPGLVKQRTQEI ETRLRLAGLTVSSPLKRSHSLA KLGSLTFSTEDLSSRPPGPPGP PPGLHPGPPRRPPPKLPPAPP GCSVHCCHYPLHFVVSPLGIFY CSLMRIQIVFVTAFFVHDSALL PLDASLAPALQNFQRYTGIQH VHRIGMAERMWCDNRNRHT VSSSGGNRLPNAPLPNPGVLS APPNLIQRPKADDTSAATIEKK ATATISAKPQITNPKAEITRFCPL
13223	43591	B	13303	1	1185	
13224	43592	A	13304	529	774	
13225	43593	B	13305	1	1089	
13226	43594	A	13306	712	1024	GVESNLVVVVALCHRLIYLVW GTRTVRTWIGEAVAAAAADGV TFSVAVTPHTFRHSYAMHMLY AGIPLKVLQS\RVVALDVAARH RVQFAMPESDAVAMLKQLS
13227	43595	A	13307	556	1040	
13228	43596	A	13308	1	984	
13229	43597	A	13309	95	428	
13230	43598	C	13310	1	426	

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13231	43599	A	13311	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSVP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEVEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS CIVSLKIDWIERYQLPQSYQLY YFELAIPVGYFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEVDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVVCAADVLIV PTPAELFDYTSALQFFDMLRD LKNVDLKGFEVDVRILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEVEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13232	43600	A	13312	1	1593	
13233	43601	A	13313	1	2536	
13234	43602	A	13314	887	1205	RPEKAR/IWGVTDRTVVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEVEYTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
13235	43603	A	13315	79	351	
13236	43604	A	13316	1	2320	
13237	43605	A	13317	187	798	
13238	43606	A	13318	2089	2610	
13239	43607	A	13319	1	1407	
13240	43608	B	13320	154	3682	
13241	43609	A	13321	1	1206	
13242	43610	A	13322	1	255	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13243	43611	A	13323	3058	3160	GSAA*LPPPLPAAFSGSCWLSQ RHP ELHV*NEIYHLLH*KSFTSC *HNLSS*PRYPYLSSERV LW*CL SFISKI*SVTMP*SDLISLW*KLE PLTCRSTSHFRQKLAQ/RLP/AY QQGHQDLFILRSDLPSQVFIRDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAVAAAAADGVT FSVPVTPHTFRHSYAMHMLYA GIPLKVLQSLMGHKSISSTEVT KVFALDVAARHRVQFAMPESD AVAMLKHYPEINALALYLKCG TEWIC
13244	43612	A	13324	1	1812	
13245	43613	B	13325	1	1776	
13246	43614	A	13326	583	751	
13247	43615	B	13327	826	2097	
13248	43616	A	13328	1810	4163	
13249	43617	A	13329	686	2939	
13250	43618	A	13330	1085	1690	SYFIMVKVGTSTYVPINVSFSPKV GPGASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGR\IYK ARIWEV\TDRTVR\TWICRGGL PAAAADGVTF\SDPGPPHTFRH SYAMHMLYAR*YR*KFLQSLM GHKSHPINGKATPKVFGPGMG LARA/HRGAGWQWPKSDAVG\ MPKQLSLRINALGLYMETGKPE GIMLFFGC
13251	43619	A	13331	3	327	
13252	43620	A	13332	3	337	
13253	43621	C	13333	167	413	
13254	43622	A	13334	1	1256	
13255	43623	A	13335	1	1078	
13256	43624	A	13336	3	976	
13257	43625	A	13337	1	1004	
13258	43626	A	13338	2	291	WRKIYEANGKKRKQRLQS*SL MKQTLNQQRSKETKKASA/SM RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMAIPPK
13259	43627	A	13339	1	2022	
13260	43628	A	13340	1	2262	
13261	43629	A	13341	5	283	
13262	43630	A	13342	1	1245	
13263	43631	A	13343	1	1203	
13264	43632	A	13344	1	687	
13265	43633	B	13345	1	1371	
13266	43634	A	13346	1	2241	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13267	43635	A	13347	1	832	LKKCIKTPEIPSKHVRNWPVKV LEQRRQGLETYLQVASITLIPKA DEDTPKKKTTDKNSWTGTDK VFNKILEIKFSSILKRLYWPVLE VLARAMRQEKEIKGIQLGKEEV KLSRFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQ\TESQIRIKYLGIQ LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKRYPFCQLCHQSAISTTKG VFTSILPLLMIQLVSGRSCPSV AWSSMECTTV
13268	43636	A	13348	1	1314	
13269	43637	A	13349	1	843	
13270	43638	B	13350	1	1011	
13271	43639	A	13351	1	173	
13272	43640	A	13352	1	323	
13273	43641	A	13353	3	2020	
13274	43642	A	13354	1	1473	
13275	43643	B	13355	1	636	
13276	43644	B	13356	1	456	
13277	43645	A	13357	1.	619	
13278	43646	A	13358	1	1293	
13279	43647	B	13359	79	1041	
13280	43648	A	13360	3	718	
13281	43649	A	13361	1	612	
13282	43650	A	13362	1	992	
13283	43651	A	13363	1	1236	
13284	43652	A	13364	1	1071	
13285	43653	A	13365	359	1250	KLPMGVAVVKLLHLPKVIIVFW LASWMMSRWLHYPDWVTIIAQ QVLMNVVSVMQADCRMNLLEI FLRWLMRKIFHVRLPAVSTPP NCLNQLLLFFLTPVNYLPGQVM HFKKPLQIKRNYLSSRHILTFMS RKKLGKVSG\YKIHVQKS\QAFL SANSQGOTESQIMSELPFTMASK RIKYLGIQLTRDVKDLFKEKYK SLLNEIKEDTNKWKNNPCSWV GRINIMKMAILPKVIYRFNAIPI KLPMTFFTELEKTTFKFIWNQK RAHIAKSNSQKNKAGGITLPD FKLYYKATVTKTT
13286	43654	A	13366	1196	2132	
13287	43655	A	13367	1	2271	
13288	43656	A	13368	2	1105	
13289	43657	A	13369	1	2117	
13290	43658	A	13370	1	1447	
13291	43659	A	13371	1	1669	
13292	43660	A	13372	1	2823	

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13293	43661	A	13373	1089	2539	
13294	43662	A	13374	1	1787	
13295	43663	A	13375	1205	1207	
13296	43664	B	13376	1	2745	
13297	43665	A	13377	1	2063	
13298	43666	A	13378	1	4380	
13299	43667	A	13379	1	3347	MGDFNIPLSTLDRSTRQKVNKD TQELNSALHQADLIDSYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNCSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYHNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TKIRAELEKETQKTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDA IKNDK
13300	43668	A	13380	1	2367	
13301	43669	A	13381	1	1116	
13302	43670	A	13382	1	1095	
13303	43671	A	13383	670	1500	QTESSTSKSLSTMIKWASSLG WQGWFNIRKSINVIQHIKGIQR QKPHDYLNRCRKS*QNSTTLH AKNSQ*IAQNLLKLISFNKVS GYKINVQKSQAFLYTSNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNI PCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFTELEK TTLKFIWNQKRAHIAKSILSQK NKAGGITLPDFKLYYKATVTKT AWYWYQNM CYRSMEQNRALS YYVAYLQPSDL
13304	43672	A	13384	441	3131	
13305	43673	B	13385	1	5688	
13306	43674	B	13386	916	2165	
13307	43675	A	13387	1	1529	MDPPAGAARRLLCPALL*LPAG *PLRPRLAGAAPAGTALLHER AMPL*LRPGLHDVHGVPDL
13308	43676	A	13388	1	714	
13309	43677	A	13389	3	457	
13310	43678	A	13390	2	492	
13311	43679	A	13391	3	1201	
13312	43680	A	13392	1	309	
13313	43681	A	13393	2	1073	

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13314	43682	A	13394	3119	6984	CIVKHAAMRSAMTSLAARITVL NPTRATTPNT/RVADDQGFLRQ WSKVAKERKLQRLYIGEPSAEA VAAQMPDLILISATGGDSALAL YDQLSTIAPTLIINYDDKSWHPR LSFNKADEITTVFCGSKKSLAN GIPMANILFPTSVIATQQTQHFR FVDDFNAQFLRFASLDPAA SPA ITISGKATLEIPGTELVFYAALE KKLNIKPGQTTFDGRFTLLPTC CLGNCDKGPNNMIDEDTHAHL TPEAIPPELLER
13315	43683	A	13395	3	587	
13316	43684	A	13396	1	315	
13317	43685	A	13397	430	636	
13318	43686	A	13398	1	84	
13319	43687	A	13399	1	1647	
13320	43688	A	13400	1	2652	
13321	43689	B	13401	1	1494	
13322	43690	A	13402	1	750	
13323	43691	A	13403	1	513	
13324	43692	A	13404	1	2254	
13325	43693	A	13405	1	746	
13326	43694	A	13406	3	428	LGDDFVRAANIILHCEGKVVVS GIGKSGHIGKKIAATLASTGTPA FFVHPAEALHGDLMIESRDV MLFISYSGGAKELDLIIPRLEDK SIAL\GKPTSPLGLAAKAVLDIS VEREACPMHLAPTSSTVNTLM MGDALAMAV
13327	43695	A	13407	1	1431	
13328	43696	A	13408	943	2481	
13329	43697	B	13409	1	783	
13330	43698	A	13410	3	729	
13331	43699	A	13411	1	843	
13332	43700	A	13412	3	128	
13333	43701	A	13413	1	136	
13334	43702	A	13414	1	492	
13335	43703	A	13415	3	619	

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13336	43704	A	13416	1	1600	GQACHASSSPLKGSRGSPPNFEI LYGPIFEDSLAPD*PKVIAGQIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLFDFALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDEILHALR DHIVGLNCGRWDYIFS YIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIK TCHKRGAFAMGGM AAFIPSKDEEHNQVLNKKVKA DKSLEANNGHDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKGSQNLWKFA VYSGLRHGELAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVYEIYGMWID DMSDEQIAMLNARVM
13337	43705	A	13417	2	278	
13338	43706	A	13418	3	662	GHLWIRIDLSQSAVSHSVKELE NHTGVRLLDRTTREVVLTDAG QQLALRLERLLDELNSTLRDTG RMGQQLSGKVRVAASQTISAH LIPQCIAESHRRYPDIQFVLHDR PQQWVMESIRQGDVDFGVIDP GPVGDQLQCEAILSEPFFLLCHRD SALAVEDYVPAALPLPEGSPLVV KRITPVVERQLMLVRRKNRSL TAAEALWDVVRDQGNALMAA
13339	43707	A	13419	1	646	GQQLSGK\VRVAASQTISAHLIP QCIAESHRRYPDIQFVLHDRPQ QWVMESIRQGDVDFGVIDPGP VGDLQCEAILSEPFFLLCHRDSA LAGGDYVPWQALQGAKLVLQ DYASGSRPLIDAALARNGIQAN IVQEIGHPATLFPMVAAGIGISIL PALALPLPEGSPLVVKRITPVVE RQLMLVRRKNRSLSTAAEALW DVVRDQGNALMA\GRE
13340	43708	A	13420	1	1068	
13341	43709	A	13421	1	381	
13342	43710	A	13422	3	938	

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13343	43711	A	13423	595	1630	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGHYDHDYEFELGTR FRAVIKLCNGDSLRFHMTSVY ALVKCFHEGDPLHKTGCQHLIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVEMLLREAGKAGFC RFRNHHQTGFSPAGANQRGPL AATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGNSYDHDYEFELGTHQ RLGAVARIVGDDLLNELRRDV VDARAGDVDQHAHAKEGDFR
13344	43712	A	13424	1	1395	

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13345	43713	A	13425	1307	1992	DKLNPVAHQKAYLAQSSQCHP QNARLVQHTQIRILPISEPPSNRI FACWGKPAWTACCN/FSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLESGQD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADSL MQLARQVSRLESGQDFADFGT TIKQDFRLLGQTSVDRLLQLSQ GQAVKGNQLLPVSLVKRKTTL APNTQTASPRALADSLMQLAR QVSRLESGQLKHKEVESPNRPI TSSEIQVLIKSLPIKKSPGPDGFT AEFYERYKEELVPFLLKLFQTIE QERLLPNSFYEASHILTSKPSRD ATKKDNFRPTSLMNIYAKILNK IGQTESSSTSKSLFSTIKSVSSPE CKAGSTYANQDFADFGTTIKQ DFRLLGQTSVDRLLQLSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQETTPWSPFSDPVLAFDY KVFMFVYNNVVRVSQRMVVA GCISAFNDKLLNDLICFPVAPVS SKQIFPSDVKVAEPDHSCVSSY RIGSMAPNLTSEMPRHNYFPA GNSVDHDNEFEL
13346	43714	A	13426	560	844	
13347	43715	B	13427	200	1519	
13348	43716	A	13428	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13349	43717	A	13429	695	1060	FRQRSVAFPPPTVPNACVSVRSR ERDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N*CRKHRLSIPRK
13350	43718	A	13430	1	1558	MRDIFWVPDICKVMLYL VFFRS MGTPLRVAVAMGLVITSWKIAQ KPRDFADFGTTINQDFRLLGQT SVDRLLQLSQGQAVKGNQLLP VSLKTDTKAKNLYLTKAYYGG GTNFFRKESQKLQSSAKKRDA ELANGALGHIELNNDYTLKKVM KPLITSNTGFADFGTTIKQDFRL LGQTSVDRLLQLSQGQAVKGN QLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESG Q*AQRN
13351	43719	A	13431	391	1676	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N
13352	43720	B	13432	1	1638	
13353	43721	A	13433	1	2430	
13354	43722	B	13434	1	1282	
13355	43723	B	13435	1	1225	
13356	43724	A	13436	350	709	
13357	43725	A	13437	1	2236	
13358	43726	A	13438	548	1698	RSWLRSSLSGSIPIATEISCTSCE ASTSS/VRDFPGVKDLTFQWHD RLIFAIAIARLLGRSACGVTFHKEQ LGTVKVLRGTISQFARQRRRAAG QLFTHHFFGRHTHTALGAGNRH LRQQFSRLNVLVQPQDKGIFHH ARNECRALTRRETPAFFRIRAVF NSQLSQTQLHIFFTARPAGLAS KCRKPPQACYLWDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMQLARQV SRLESGQNIESAKGLHVWDSW PLHNADGTVDYNGYHVVFAL AGSPKDADDTSIYMFYQKVG NSIDSWKNAGR VFKDSDKFDA NDPILKDQQTQEWSGSATFTSDG KIRLFYTDYSGEHYG
13359	43727	B	13439	448	1116	
13360	43728	A	13440	97	1636	
13361	43729	A	13441	1	1296	
13362	43730	B	13442	1	2160	



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13363	43731	A	13443	485	865	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQS*NSS KTKNTKCLNSINQRLKILSLQK DLMCGTAGRCKTLTEQ
13364	43732	A	13444	816	1194	SLILFLRRRRAVEKRGKVKWDS CPNGTTTLTSGAIFLFIIRDFADF GTPITQDFRLLGQTSVDRLLHLS QGQAVKGNQLLPVSLVKRKT LAPNTQTASPRALADSLMLA RQVSRLESGQ*AQRN
13365	43733	B	13445	1	2710	
13366	43734	A	13446	2027	2934	NPRILPISEPPSNRIFACWGKPA WTACCN/FSQGQAVKGNQLLP VSLVKRKTTLAPNTQTASPRAL ADSLMLARQVSRLESGQDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLVKR KTTLAPNTQTASPRALADSLMQ LARQVSRLESGQSRVHSHSLGP LPTTTTGSINQKKGGVSGGPG SKEQAEISCLKERKDLGLGILGS TVGILKVKHQGASTKQGHSD LIKILLSDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSA YERGQ RYASRLQYMNLLPIFLRWLMR KIFHDEHGVPQDQEEEEPISETII EEEIPSINSDLGNELYFVKLPKF LSIEPKDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMLARQVSRLESGQP HSTDSATHRKMTLSLADRCST QKIRILPMAGRDPECQRTEMIK SSDLMAEIIQEHKEDQLPELEQL EHIGLFSAEIKAIKKASDLQY RIQERALFKDDFINYVLHEIPLF EQIQRRTIRIGYSLKHGIRAVKA TIVRALYGRIPAGVVVTRSV
13367	43735	A	13447	1	5240	
13368	43736	A	13448	4733	4753	

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13369	43737	A	13449	299	761	LNTTAITLCLLLREARKTLMTH QSTCFIKRDFADFGTTIKQDFRL LGQTSVDRLLQLSQGQAVKGN QLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESG Q*AQRN**PVPKEKRRRGDRQE HQQPCRNTEGTALRVWAARDQ
13370	43738	A	13450	3925	4190	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N
13371	43739	A	13451	2	1040	
13372	43740	A	13452	58	350	HLASWVVALVLHWGCVWVTA ESSTSKTRSPFRARSWIGEAVA AAAADGVTFSPVTPHTFRHSY AMHMLYAGIPLKVL\QSLMGH KSISSTGVPSSNS
13373	43741	A	13453	1	1290	
13374	43742	A	13454	289	1338	
13375	43743	A	13455	1	732	
13376	43744	A	13456	982	1347	
13377	43745	A	13457	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSPV VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS CIVSLKIDWIIERYQLPQSYQLY YFELAIPVG YFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEVDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWIGTINNVCAADVLIV PTPAELFDYTSALQFFDMLRDL LKNVDLKGFEVDVRILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13378	43746	A	13458	1	780	

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13379	43747	A	13459	116	396	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSPV VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYVTKVF ALDVAARHR
13380	43748	A	13460	3	514	
13381	43749	A	13461	2	545	
13382	43750	A	13462	1	1110	
13383	43751	A	13463	1	870	
13384	43752	A	13464	1	1422	
13385	43753	A	13465	1	1599	
13386	43754	A	13466	614	1236	TARVAAARRRCQCWGSACGS ALTLPRTSSLTLTETPIVQQLRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSPVTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13387	43755	A	13467	1	1023	
13388	43756	A	13468	1	699	
13389	43757	B	13469	1	1281	
13390	43758	B	13470	77	751	
13391	43759	A	13471	1	705	
13392	43760	A	13472	2	893	
13393	43761	A	13473	206	837	CAGAGGIARRRAEKEKALSAV NLDPTSRRLSSTSLPGAPPNPRV AAAGLSRRRPTPESAGRKS/GR WPRASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVRTWIGEAVAA AAADGVTFSPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEYVTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13394	43762	A	13474	1	1416	
13395	43763	A	13475	1	765	
13396	43764	B	13476	1	519	
13397	43765	A	13477	1	2784	
13398	43766	A	13478	1	624	
13399	43767	A	13479	2089	2454	

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13400	43768	A	13480	740	1431	CCQTLPVFHPHPHPSHLGPRPCPP TH/HLPSEHRSLFLEAACHDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQSPPLGIPHPSSL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13401	43769	A	13481	2	2309	
13402	43770	A	13482	1	603	
13403	43771	A	13483	1	762	MVPHSTGKSWNGCDPTSATLD QLVTVFFMKLFSIGDARIPCLGP RSHSYRRSDYYSGTTIHSCCRA DYWSGTTAHL YCRSDYHPVPS FILVTSTTNHQPLKPSISEASWN PLFASL/HHLQLITES/W/YMSLA TTVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVRTWIGEAVAA AAADGVTFSVPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13404	43772	A	13484	1	762	
13405	43773	A	13485	1	615	
13406	43774	A	13486	887	1203	RPEKAR/IWGVTDRTVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
13407	43775	A	13487	1	855	
13408	43776	A	13488	1	927	
13409	43777	A	13489	1	921	
13410	43778	A	13490	1	3216	
13411	43779	A	13491	1	1974	
13412	43780	A	13492	1	1221	
13413	43781	B	13493	1	2337	
13414	43782	A	13494	1	1273	
13415	43783	A	13495	1	1251	
13416	43784	A	13496	1999	3237	
13417	43785	A	13497	1	1773	

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13418	43786	A	13498	1	633	AQALIATYGRDRDPGRPLWLG SVKSNIGHTQAAAGVAGVIKM VMAMRHGQLPRTLHVESPSPE VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRFSYAMH MLYAGIPL\*VLQSLMGHKSISS TEVYTKVFALDVAARHRVQFA MPESDAGGPGTCACSQQCRL RGSSVSPGRQHPQPHVRV
13419	43787	A	13499	101	1943	
13420	43788	A	13500	686	3925	
13421	43789	A	13501	1	2084	
13422	43790	A	13502	734	834	
13423	43791	A	13503	1	1075	
13424	43792	A	13504	1	357	
13425	43793	A	13505	795	1273	SHPFFSTDWSTDGTGRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMSRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLLPAV STPPNCLNQLLLFFLTPVNYLPG QVMHFKKPLQIKRNYLSSRHLT FMSRKKLG
13426	43794	A	13506	344	449	SHPFFSTDWSTDGTGRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASCMMSRCPHYPDWVTI IAQQVLTPRKDVMQADCRMNL LEIFLRWLMRKIFHGFGM
13427	43795	A	13507	1197	1511	WHYREPLLLRAQLTNPPSGQLV SITKYLQPVY*AYVLE*QAHL HYQLKSVDQWPVQKQFSSGSD LYQLHPFHVQHFLPCFPRHPE FAPPSTGTESHYYCCIW
13428	43796	B	13508	1	1494	
13429	43797	A	13509	1	554	MTARKARKITRRWRIGEAADL VGVSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPVIGVAA HKGNDPQGTASMYHGWVPDL HIHAEDTLLPFYLGKDDVTYA IKPTCWPGLDIIPSCALHRIETE LMGKFDEAQP NLGIGT/N*CRM CC*CADCSHAC
13430	43798	A	13510	1771	2068	DTYSVSWIGEAVAAAAADGVT FSPVTPHTFRHSYAMHMLYA GIPLKVLQSQYPIFKLSYKNPVT QTAWFVFPNRIFGPVPINVSFS PKVGPGLPGII
13431	43799	A	13511	65	277	

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13432	43800	A	13512	327	748	VHQFHGSLHEGFCAGCGCPAP GTVCDAGGFCRFRNHHQTGFSP AGANQRGPLAATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AKSIWCHRNCRW/RVAVVKLL HLPKVIIVFWLAS
13433	43801	A	13513	512	580	
13434	43802	A	13514	2096	2272	EWRNVCGVTGTENVTPSAAA QPPPPQSRPFSWILRPF*RP*RKIS TSFIRPLFTFLPA
13435	43803	A	13515	402	2784	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQSD F*RRRKNISERSAAYR*RQLYIR RQPYAERPS\HVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGIIELNNDYTLK KVMKPLITSNTVTDEIERANVF KMINGKWYLFDSRGSKMTIDG INSNDIYMLGYVSNSLTGPYKP LNKTGLVLQMGLDPNDVTFTY SHFAVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQQQLTWLQVA KRAGLGGGQSGRTVLRERLPN YKNFKGTIQELGQNQYAVSGEI FVVDNRNTVEITELPVRTWTQVY KEQVLEPMLNGTDKTPALISDY KEYHTDTTVKFVVKMTTEKLA QAEAAGLHKVFKLQTTLCNS MVLFDHMGCLKKYETVQDILK EFFDLRLSYGLRKEWLVGML GAESTKLNNQARFILEKIQGKIT IENRSKKDLIOMLVQRGYESDP VKAWKEAQEKCDNLKTCHTSH GSVMAETAVINHKRKNNSPRIV QSNDLTEAAYSLSRDQKRMLY LFVDQIRKSDGTLQEHDGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPEEDAGDE KGYESFPWFIKRAHSPSRGLYS VHINPYLIPFFIGLQNRFTQFRLS
13436	43804	A	13516	2	199	WRKKSLDIPPLIIPNGIVKNILRH FSQLLNPITRPFWSILRPF*RP* RKISTSFIRPLFTFLPA
13437	43805	A	13517	1	1887	

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13438	43806	A	13518	125	828	ECRKHTKLKLQPTIWHVLKI/Y NSEKLLVYRKLLQVLTGLYKRS NLGVRLYACCGLLCPAYPQH FAHGYVDKIPGYPRAGTLTGL HPMQCDNLKTCHTSHGSVMAE TAVINHKRRKNSPRIVQSNDLT EAAYSLSRDQKRMLYLFDQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEAILRYFIKHSADMEA ITNGMMNLNRQRHQHLVALRII FAHGENGGEEVVHIGHV
13439	43807	A	13519	504	755	EPCFPAHPEFAPLSTGAESHY CCIW*AKYVHQARTL*DQRS*A DHEAYRKTA VRRCSTTQQA W EQLVHQQHILPSSCRYPG
13440	43808	B	13520	1	1980	
13441	43809	A	13521	923	1063	
13442	43810	B	13522	1	1932	
13443	43811	A	13523	383	1383	RKVFFIALKRMPAMKKAMNLF LGLSNVRTVHPEGFTVYISTHIS FPSLSGYKTRLRSFGLVKQKKS PILLEVLAREIRQE/KEIKGIQFG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKLSRM HGRPHQPPNAASTLPFPKRRSH YGQKSERLSRSGDNRKSHPECR HWQSCAKKSRC LAFTRTVRHT PRSA YLLTRTIELLESSALWHV QTQRIYAPLYETLDPGNRTHCE
13444	43812	B	13524	107	1000	
13445	43813	A	13525	1778	1897	
13446	43814	A	13526	273	421	SHPPFFSTDWSTD TGVRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFSSAS
13447	43815	A	13527	273	697	SHPPFFSTDWSTD TGVRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMSRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRIIFHVRLLPAVS TPTNCLNQLLLFFLTPVNYLP QSGTTVPLVSSV

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13448	43816	A	13528	273	688	SHPPFFSTDWSTDTGVRKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVT IIAQQVLMNVGSMPCADCRMN LLEIFLRWLMRKIFTTGLRSFGL VKQKKSPIRMPCVYTNPVSIV SRMGQASSL
13449	43817	B	13529	1	1053	
13450	43818	B	13530	1	1869	
13451	43819	A	13531	120	430	EDLSDTGVRKSIWCHRNCRW/ RVAVVKLLHLPKVIIVFWLASW MMSRWLHYPDWVTIIAQQVL MNVVSVMQADCRMNLLEIFLR WLMRKIFHSSLEDPRNWHL
13452	43820	B	13532	148	334	
13453	43821	A	13533	2	147	TSMDKGLQGALKKKI*DL*KK* LAKNIPVDKWITPREVFSGIVCK QNI
13454	43822	A	13534	151	325	KAICHNTFSKPSMDKGL/LRRS KKEGFKTYKKNIYKNIPVDKWI TPREVFSGIVCKQNI
13455	43823	A	13535	283	406	HRTKISIVPEGIFKSFSLPLAGIM TEQYFL*TLHRLRLIM
13456	43824	B	13536	1	1902	
13457	43825	A	13537	508	1041	LWREASKDIRQALKSFAGKEV VFYRPEEDAGDEKGYESFPW/C YQTWHSPSRGLYSVHINPYLIP FFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIDWIIERYQLPQSYQRMPDF RRRFLQVCVNEINSRTPMRLSYI EKKKGRQTTHIVFSFRDITSMTT
13458	43826	A	13538	1	1422	
13459	43827	B	13539	1	1002	



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13460	43828	A	13540	1	160	MVLIVAATVVVVVVVGLCWM AKSECRSAMRLSSLQVRIFTYLI GREAAFADNLKWMACANKES ALLDRFIFLILLCKEPWECHCL PLFKVAMPSKCDIPVICAHINIG FTLRQLRGFGPCNIGSFEAKDS KNPQVRVISQKHKALRCIWFIT CSICNPEFTEGALQGNKQRKRQ CLQWFRAKALESNEPGFEFIQD KLLTQSLCFFPYTFLWLTGPHPS GSSYTDPCSSKADVTPSSTAVQ EHSSALELTKTIVSPITRQQHGF FTQISTLADVQENVMEYLHVLS RPKVIDQEHVWTEAYIDSTV CRVKRRQLLLQQVPLTRKQQF LPAPYVDLDSARTRTNKQQQN PIIYTGSKQGSVILFHYGESWN LLRADQRLIFAKSWPRASRYQQ GHQDLFILRSDLPSQVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRVQFAMPESDA VAMLKQL*QPQWWWSW*D CAGWRKVNAAQPCVCLPFRFA SSHTSLDERLRLQTI
13461	43829	A	13541	48	668	
13462	43830	A	13542	1	1278	
13463	43831	A	13543	100	157	
13464	43832	A	13544	1	1122	
13465	43833	B	13545	1	1131	
13466	43834	A	13546	273	812	SHPFFSTDWSTDGTGVRKSIWC HRNCRWESPS*SC/WHLPKVIIV FWLASWMMRWLNYPDWVTII AQQVLMNVVSVMQADC\KRIC WKYFCAG*CGKIFTYQ**TWN NTETSMSQKPCKMKRI/YSREE LAV*KMDHHSDDLISLW*KLEPL TCRSTSHFRQKLAQGFPVSTGT PGFIYSK
13467	43835	B	13547	1	987	

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13468	43836	A	13548	246	2065	LVGWLDGWLDGWLIVALPFM MIPWHSSIQPFTIHPFNWNFG*M PELCPQI\GMDSWLAGWM/CWL DGWLDGW*MAKLRKPVL*PD KEGNEIWVDMYTVKPSGWTVR TFDKPRKRFI AFFIAGILFRAIKN HFLPRETLQCLPYILTGFRRGQS EYFSIFSNDLADTVMFLIVAL PFMMIPWHSSIQPFTIHPFNWNF G
13469	43837	A	13549	2	118	
13470	43838	A	13550	397	729	THGIRIGDFFCFTKRKLKRPVL* PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFI AFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFL
13471	43839	A	13551	147	417	SSSWGRSSPQLVCGIFQTAGPQS LCKWNQ*VLAQTNKKTAGTSA DLYVPV*QL*RKAVVLPNTAP WRFWRTRQEWFSRGRSGYQS QET
13472	43840	A	13552	1	2418	
13473	43841	B	13553	1	1848	
13474	43842	A	13554	188	490	EWRNVCGVTGTEKVTPSAAAA ATASPIQVLTVLSVTSQIRAFSV LPVRRLLRRSMSLSRINTCVNRF CNPIKKGMRYGLICPL*SLLDGL CARLINQGKDS
13475	43843	A	13555	83	440	SLLFKCSGVIVLRRPLGYRQVM NVTRRCLLRTHWMISLLFY*L VNRHRRSVEEYLVSYTLPMGV AVVKKLLHLPKNFVSLITPRGRL EKERAFLFQHMRISITGLKIFV MHTSCPMVVC

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13476	43844	A	13556	1337	2583	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRQPYAERPS\HVEDKGGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAHSPS RGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRV TNP CVSIVCVNEINSRTPMRLSYIEK KKGRQTTHIVFSFRDITSMTTG
13477	43845	B	13557	1	696	
13478	43846	A	13558	326	1577	SGLLPIKVAFTKPQFLFILLRIW* AKYVHQARTL*DQRF*ADHEA YRKTA VRRCSTTTQQAWEQSA HQQHIRH
13479	43847	B	13559	1	3822	
13480	43848	A	13560	848	1476	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
13481	43849	A	13561	1	2196	
13482	43850	A	13562	326	3746	SGLLPIKVAFTKPQFLFILLRIW* AKYVHQARTL*DQRS*ADHEA YRKTA VRRCSTTTQQAWEQSA HQQHIRH*SCRYP*ARCQ*LTG QIVHRGEKKEQQLI
13483	43851	A	13563	3802	4075	IRCFTYSPAGYFPRFRAVIIKLC NGDSLRFHMTSVYALQEAAAE VRHTLVTLRQLVTLYDPVDFQ RDDA*AIRAYD TDTGIRINAWH TDW
13484	43852	A	13564	1708	3198	
13485	43853	A	13565	1	1401	
13486	43854	A	13566	1214	1357	NKINMFIAALFTIAKTWNQPK\ CPTMIDWIKKRGSSRVASSSPT RTR

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13487	43855	A	13567	3363	3852	SHPPFFSTDWSSDTGVRKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMSRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLPAV STPPNCLNQLLLFFLTPVNYLPG QGFAGFRNPPSNRIFACWGKPA WTACCNSLRARR
13488	43856	B	13568	350	742	
13489	43857	A	13569	248	599	HRDSYKRMAYGLVISVVSLSR KLRKPVL*PDKEGNEIWDVDMY TVKPSGWTVRTFDKPRKRFI AF FIAGILFRAIKNHFLPRETLQCLP YILTGFRRGQSEYFSIFSNDLA DTVMFL
13490	43858	B	13570	1	2148	
13491	43859	A	13571	3064	5069	RSDPDENCC*TGH*STLFNWC\ WRNALSIEWPVCNEIFYRLIKPR WEIRWGKRAPVIPKHTLNTQPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPVCGRDVKFTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDLIPSFLTGTGQQT AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELDDEQMAA LSRLGNDYRPTSAYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPRQ APCMKSNNALIVILGTVTLDV GIGLVMPDLALKGLRVLLVEG NDPQGTASMYHGWVDPDLHIHA EDTLLPFYLGKDDVITYAIKPT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVVIDSAPNLGIGTINVV CAAHALIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEPAV RILLTKYSNSNGSQSPWIEEQIS DAWGSMLVKNVHAIVTGDAV GMDDIPQEARQYRHNQAYAYS IQGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ RNGGVLIEDKFECFFSLTAVFA TRAYYAVYHLTGARHSDIVVA HGYAGCNVRFVALLGTNTTLE TYLSNQGSNGFSLHFGEDVGQ

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13492	43860	A	13572	1408	5578	CSHLLIIQLANQNTIITFGKCSSF TTATPIGNFYDTRYSSSTERRCLL TSQ*KRRDEIIQCVLSKQLRAR SLPDPTRKVSTLSRSTFRVNF TSRPHTGKVWAFREPFLPPHL RKPDTDTGYLYKRMAYGSVIS/ ICFTKPKLRKPVLPDKEGNEIW VDMYTVKPSGWTVRTFDKPRK RFIAFFIAGILFRAIKNHFLPRET LQCLPYILTGFRRGQSEYFSIFS NMDLADTMFL
13493	43861	A	13573	2678	2884	SAPLQRNTARRFLFLKACSNR FCYR\WRHMTAIPSYNRSKLEI KGGLYHMGIFRRFLASKETPTF CY
13494	43862	B	13574	1	7903	
13495	43863	A	13575	1	880	
13496	43864	A	13576	1	996	
13497	43865	A	13577	763	778	NRCEPPV*GTRFSQQLLLALKA TLLIEELYALTVHSWRPKW
13498	43866	A	13578	2	254	
13499	43867	A	13579	1	2358	
13500	43868	A	13580	206	382	
13501	43869	C	13581	1	1137	
13502	43870	A	13582	79	906	
13503	43871	A	13583	2	383	SPPEVVRLGYHPPRHGHQHLF ASCRKGDVGRVRP*TRDPGSD LLPAQVPAGAARRGGTMPACV GTRSWYSTFWPMEPAARPTPS MVSAASMGH*VTPSAGLYAITS RSRLPAGGGITMTTSCSGF
13504	43872	A	13584	1	1092	
13505	43873	A	13585	173	262	
13506	43874	A	13586	898	1391	QLGILRVNLLGIDLRVTGHQAA PPLHLLDLLQMH/SSPPCRPQ*A TSSPPPSLRCRAPHR*SLAAP*A PPPRPSLSAGSPHRKGPPGPAPT GSWSSGNQAGLPCCLGWASVF LCPSHLPPHLPQSSASLAFHRV KHLIHLHNSVIDKMKYQLKFLC LLGEYLSV
13507	43875	A	13587	1	960	
13508	43876	A	13588	1318	1369	RDFHPK*HTIGIQYIWQQLEINQ CDTSLSMVLPAR*RDHFPHKSHLL PGAAQIQ
13509	43877	A	13589	212	385	
13510	43878	A	13590	377	505	
13511	43879	A	13591	69	193	CSLRSLAQMLPFYPRRSLCLSCS L**PHCCLWLAALRSESK
13512	43880	A	13592	1	230	
13513	43881	A	13593	2	341	

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13514	43882	A	13594	1	2421	
13515	43883	A	13595	1	623	
13516	43884	A	13596	1	906	
13517	43885	A	13597	1	568	
13518	43886	A	13598	107	199	
13519	43887	A	13599	42	328	GGASGVCSF*CSE/LSSFWWVR GLAGSGVKLQTFATQEPSWLH PVDVPGLQVELPASPCART PQPLGGRWDSAPWSRGRSSG AHGIDVALLP
13520	43888	A	13600	5	124	IWILWFFVSLT*RSRGPSQ*VLQ LIKAPHVDLLVVTFGC
13521	43889	A	13601	827	973	IHQSAICI*LKFYTSLTHPVISLV VETLVWW*YMKM*KKLWSWI RGRG
13522	43890	A	13602	2	503	
13523	43891	A	13603	56	792	
13524	43892	A	13604	1	411	
13525	43893	A	13605	1	1554	
13526	43894	A	13606	1	363	
13527	43895	A	13607	1	966	
13528	43896	A	13608	932	1189	
13529	43897	A	13609	146	323	
13530	43898	A	13610	1	1827	
13531	43899	A	13611	2	412	
13532	43900	A	13612	1	2238	
13533	43901	A	13613	2	411	GATDCVCYYTVGFNDTKTSAL HMVVGDSLAMDVSSVHHNSTL LRYSVTLGLGYGFYGDIIKDSK KRRGLGLARYDFLCIKTFFSHH* YEGTVTFLPAQHTVGSPDRKP CRAGCFVCRQSKQQLEEEQKT ALYGLEL
13534	43902	A	13614	3	2185	
13535	43903	A	13615	206	1568	
13536	43904	A	13616	165	417	TWDYIRPNE*YM*MAKKKMP MD\WCNGKNWRPAG\EFVDD G\TETHFSIGNHDCYIKAVSSGK RKEGIIHTLIVDNREIPEIAS
13537	43905	A	13617	463	837	
13538	43906	A	13618	1	765	
13539	43907	A	13619	3	510	AGVHKIEFEHGTTSGKRVVYV DGKEEIRKEWMFKLVGKETFY VGA AKTKATINIDAISGFAYEY TLEINGKSLKKYMEDRSKTTNT WVLHMDGENFRIVLEKDAMD VWCH\GKKIRRPAGEFVDDGTE TPLQYPGPMTCYIKAV\SSG\KR KEGIIHTLIVDNREIPEIAS
13540	43908	A	13620	342	585	
13541	43909	A	13621	1	1119	

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13542	43910	B	13622	48	1104	
13543	43911	A	13623	656	916	GWRKYLQGAADMGIAEGGGS VWSSWASSSLISVPVR*LCESTQ RSAPGWPLTGGSCSESVALWL CVNDFEFQMRLMPSRDSEPAC
13544	43912	A	13624	179	682	
13545	43913	A	13625	1	7511	
13546	43914	A	13626	56	8669	
13547	43915	A	13627	42	8716	
13548	43916	A	13628	1	2457	
13549	43917	A	13629	3	571	
13550	43918	A	13630	1	867	
13551	43919	A	13631	1	2238	
13552	43920	A	13632	171	396	
13553	43921	A	13633	1	3940	
13554	43922	A	13634	554	619	
13555	43923	A	13635	1	1359	
13556	43924	C	13636	208	359	
13557	43925	A	13637	2	513	PSHDHSLGTRASGKVLHGEH AAVHGKVALAVSLNLRFTLRL QPHSNGKGDLSLPNIGIKRAW VARLQSLDTSFL/RWTKEDLELI NKWAFQGERMIHGNPSGVDNA VSTWGGALRYHQGKISSLKRS ALQILLTSTRG\PRNIRALVGGG RNRL\LEVPMGGPLLLLSW
13558	43926	A	13638	3	1331	RVDDFVGELLRLRRGGAADVE AAAAAGFPGAMLSQVLLVSAP GKVLHGEHAVVHGKVALAVS LNLRTFLRLQPHSNGKVDLNL NIGIMRAWVARLHSLDTSFLG ECKEEKPEQGDVTTPTSEQVEK LKEVAGLPDDCAVTERLAVLA FLYLYLSICRKQRALPS\DIVV WSELPPGAG\LGSSAAYSVC LAALLTVCEEIPNPLKDGD\CVN R\WTKED\LELINK\WAFQGER MIHGNP\SGV\DNAVQHLGEGA LRLPSRGRFSFL*RGSPVFQI/LG LTNTKVPSAITRALVAGVRNRL LKFPEIVAPLLTSIDAISELCERV LGEMGEAPAPEQYLVEELIDM NQHHLNALGVGHASLDQLCQV TRARGLHSLTGAGGGGCGITL LKPGLAQPEVEATKQALTSCGF DCLETSIGAPGVSIHSATSLDSR
13559	43927	A	13639	1	950	
13560	43928	A	13640	1	1653	
13561	43929	A	13641	1	2601	
13562	43930	A	13642	2	513	
13563	43931	A	13643	47	367	

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13564	43932	A	13644	1	633	
13565	43933	B	13645	1	1110	
13566	43934	A	13646	172	1095	
13567	43935	A	13647	1	855	
13568	43936	A	13648	3	440	
13569	43937	A	13649	2	230	
13570	43938	A	13650	2	606	AEFDLCCSPCRRRLGREEAGE EPTSPVTQYLQPRSPREECKMFA CAKLA\CTP\SLIRAGSRVAYRPI SASVLSRPEASRTGEGSTVFNG A\QNGVSQLIPKGSFKTSAISKK TLDTA\AKFIG\AGAGNS*GVG WFLVAGIG\TVFWASLIHWVM ARKPFRWKQQLFSY\AILGICL VLKAMGSPFVLMVAFLILFAHV TEITA
13571	43939	A	13651	200	2320	
13572	43940	A	13652	224	640	
13573	43941	A	13653	1	357	
13574	43942	A	13654	43	183	
13575	43943	A	13655	3	478	SSAGREPDPDDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSSGFVAI KKKQQDVVRFLANKIEFEEVD ITMSEEQRQWMYKNVPPDKKP TQGNLPPQIFNGDRYCGDYD RLFESKESNTVFSFLGLKPRLAS KAEP
13576	43944	A	13656	2	428	CRDGKDVVSLVRATVWALSKR KLQPTRAL\TPTPSAVNLIKQF LKDKPELV\DKVGVRTRGCNG LSYTVEYTKTKGNSDEVIQDEA RVFIEKKAQLTPLGTEM\DYVED KLSSE\FMFNNPT*TCGCGAPGK LVETLGLTEEIM
13577	43945	A	13657	1	1377	
13578	43946	A	13658	1	1215	
13579	43947	A	13659	1	452	REAEAADLRSEAPGRRDGEDV GFLSSGQLSGLCSKRKLQPTRAL ALTPTPSAVNLIKQLLKE*P*AC R\LKVGVRTRGCNGLSYTLEYT KTKGDSDEEVIQDGVRVFIEK\K AQLTLL*TEM\DYVEDKLSKGV GVHSPNIKGTGCGGESFNI
13580	43948	A	13660	3	763	
13581	43949	A	13661	1	306	
13582	43950	A	13662	738	1022	GQHHPETKAWQRHNKKREF*T NILDEH*CKNPH*NTGKPNPAT HQKAYPP*SSGLHPWDARLVQ HTKINKCNPAYKQNRQKPHD YLNRCRKGL



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13583	43951	A	13663	2	516	QKIDLPEYQGEPDEISIQKCQEA VRQVQGPVLVEDTCLCFNALG GLPGPYIK\WFLEKLKP\EGLHQ FLAGVEGKS\AYALCTFALSTG DPSQPVRLFRGRTSGRI\VAPRA CQDFGWD\PCFQPDGYEQTYAE MPKAEKNA\SHRFRA\LLE\LQ EYFGKFGQLDFCKLEAGPFR
13584	43952	A	13664	7	227	
13585	43953	A	13665	1	415	
13586	43954	A	13666	234	510	
13587	43955	A	13667	2	402	
13588	43956	B	13668	530	1544	
13589	43957	A	13669	1	603	
13590	43958	B	13670	1	1527	
13591	43959	A	13671	1	1179	
13592	43960	A	13672	2	413	
13593	43961	A	13673	100	374	KHISPALKALELPFERNLII/PLQ LLKVRILKEGEM/DI*HWFL** GMGTVQKGMPHKCYHGKTGR VYNVTQHAVGIVVNKQVK*VV
13594	43962	A	13674	1	1035	
13595	43963	A	13675	2	564	GPFGNRNRLPVIRQNDGPQRGK RRGTPKYVF*/RPFRK\HGGGPL GPPYM\RIYRKGDIVD\KGMG\ TVQNGMPH\KCYHGKTGRVYN VTQHAVGIVVNK\QVKGKILA K\RIINVRIEHI\KHSKSPR*ASLK/ RVLKENDQEKERSPKKKGTWG SNLKRHPAPPQKKHTL*RTNGK EPEL\LEPIPYEFHGHN
13596	43964	B	13676	68	391	
13597	43965	A	13677	1	404	PTRTWTRGRIPRLSAPPSRGAR GTMA DPRVRQIKIKTG\VKRL \KEKVLYEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QESR MMIPDCQRRLEAA\YLDLQRILE NEKDLE\EAEEYKEARLVLDV KLEA
13598	43966	A	13678	1	436	LLLACRSMDCYLAIVHATRTLT QQRHLVKFICLGLRNLFLLLSL RILLFRRTFYPSNVSPVCYEDM GNNTANWWMLLRILPQSFQFIV PL/LIMLFCYRFTLHTLFKAHMG QKHWTMWVIFADVLIILLCWL PYNLVLLADTIMGT
13599	43967	A	13679	1	705	
13600	43968	A	13680	292	1489	
13601	43969	A	13681	434	1205	
13602	43970	A	13682	1	390	

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13603	43971	A	13683	21	479	TYPEAWKLYYRSR*SRDLRKY HAHSVSP*QDQRYTS*KILKCD EHIQKLGSCITDPGNRETSNT MHTVFHRDKTKDTHPESCCSSE KGGQPLPWFEHRKNVPQFAEP TETLFGPD SGKGAKSLVELLDE SECTSDEEIFISQDEIQSFMANN QSFYSNREQYRQHLKEKFNKY CRLNDHKRPICSGWVDNGWEA
13604	43972	B	13684	32	438	
13605	43973	A	13685	533	1226	
13606	43974	A	13686	1	1566	
13607	43975	A	13687	215	453	
13608	43976	A	13688	1	553	RRPARAAVIKQPPAPGASQHAA TPTQTPLCTPARPLPPMAHVQQ LEGRWRLVDS\KGF**NTMKE\N GVTIALRKMG RNAQAQICIITS DG*NPSPLKTESTLKT\TQFSCT/ LWGEKFEETTA\DGQKKLTNCL STFPDG\ALVQH QEWDGERKS TITKKN*KDGEISWLECVMNN\N VTCTPDSMKK
13609	43977	C	13689	11	106	
13610	43978	A	13690	3	155	LCELQKAIDLFTDAIKLNPR LAI LYAKRASV FVKLQKPNAAIRD CDRAIEINPDSAQPYKWRGKAH R*ILAWPFCMPRGVSSSNYRS QMLPSETVTEPLK
13611	43979	A	13691	1	1732	
13612	43980	B	13692	95	1715	
13613	43981	A	13693	1	446	
13614	43982	A	13694	1	786	
13615	43983	A	13695	88	828	

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13616	43984	A	13696	157	1515	RREKMAELKYISGFGNECSSD PRCPGSLPEGQNNPQVCPYNLY AEQLSGSAFTCPRSTNKRSWLY RILPSVSHKPFESIDEGHVTHNW DEVDPDPNQLRWKPFEPKASQ KKVDFVSGLHTLCGAGDIKSN NGLAIHIFLCNTSMENRCFYNS DGDFLIVPQKGNLLIYTEFGKM LVQPNEICVIQRGMRFSIDVFEE TRGYILEVYGVHFEPLDLGPIG ANGLANPRDFLIPIAWYEDRQV PGGYTVINKYQGGKFAAKQDV SPFNVVAWHGNYTPYKYNLK\ NFMVINSVAFDHADPSIFTVLT AKSVRPGVAIADFVIFPPRWGV ADKTSGPPYYHR\NCMKRFME LIRGQFEQKQGWFLPGGRG/SL HSTMTPHGP\ADCFEKASKVK LALKRIADGTMA\FMF*SSFNLA GPKWGLQAPRVLDKNYPKCW EPLKSPF\TPNSRNPAPEN
13617	43985	A	13697	1	156	
13618	43986	A	13698	8	306	
13619	43987	C	13699	1	1143	
13620	43988	A	13700	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLIEDCKTPSPSSLGADAI AKQRKTSVSAAASVSATIPRR VQGPTVVGSWARGVSAAASGP RGTGPKGKARSEKGCSLSHGPO TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSH LIHVRYAEAITGRRTAPEDKGS LGRDMLAKAGAIYMNMGKNL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPPEAEWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLLATSSEASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLGLILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
13621	43989	A	13701	188	688	

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13622	43990	A	13702	636	2628	SNDRTEDDCGKHPFMSSPP/TEP WVCLIEGQEIDFLLDTGTTFSV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLSSQVPPEAEW FTVLDLKD
13623	43991	B	13703	302	619	
13624	43992	A	13704	1	5172	
13625	43993	A	13705	1	2091	
13626	43994	A	13706	1	1754	GPRGTGPKGKARSEKCSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPILG VQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLSSQIPEEAEWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVL PQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLLATSSEASCO QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC*LWIPGYSKIARPLYT LIKETQRANTHLVEWESEAETA FKTLKQALVQAPGLSLPTGQNF SLYVTERAGIALGVLTQTRGTT PQPVAHLSKETDVVAKGWPHC LRVVAAVAVLVSEAIKIIQKGD LIVWTTHEVNGILG/AKGSLWL SDKRLFRYQALCLEGLVLQIRT SCGSHLAVTRLWALYF
13627	43995	A	13707	2	887	

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13628	43996	A	13708	3	1750	GWAVPRPGPRGLTVATEAAAA AAAAAAAAAISSRTRAPQAPEGR NRRLEKMADDIDIEAMLEAPY KKDENKLSSANGHEERSKKRK KSKSRRSHERKRSKSKERKRS RDRERKKSKSRERKRSRSKERR RSRSRSDRRFRGRYRSPYSGP KFNSAIRGKIGLPHSIKLSRRRS RSKSPFRKDKSPVREPIDNLTPE ERDARTVFCMQLAARIRPRDLE EFFSTVGKVRDVRMISDRNSRR SKGIAYVEFVDVSSVPLAIGLTG QRVLGVPPIIVQASQAEK\NRAA AMANNLQKGSAGPMRLYVGSS HFNITEDMLRGIFEPFGRIESIQL MMDSETGRSKGYGFITFSDSEC AKKALEQLNGFELAGRPMKVG HVTERTDASSASSFLDSDELER TGVIDLGTG\RLQLM\ARLAEG TGLQIPPAAQQALQMSGSLAF\ GAVGRNLCYRFAKQDFSHQT\ ETSALSAAAS\VQPLATQCFQLS NMFNPQTEKEVGWDTEIKDDV IEECNKHGGVIHIYVDKNSAQQ NVYVKCPSIAEIAAVNALHGR WFAGKMITAAYVPLPTYHNLF PDSMTATQLLVPSRR
13629	43997	A	13709	141	343	LHEGLLP*RGHALLSGALHG*C VGSCLFSTPRCLTSSTACGYPS CTPGSCTAWCPASRRRLSCWT
13630	43998	A	13710	5	426	
13631	43999	A	13711	1	1188	
13632	44000	A	13712	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDQEAVI DGRRKPEESRTTSHICRCRS
13633	44001	A	13713	1	700	
13634	44002	A	13714	3	483	
13635	44003	A	13715	2	361	RRFRAGAGYVVESTGVFTTME KAGAHLQGGAKRVIISAPSADT PMFVMGVNHEKYDNSLKIISNA SCTTNCLA/PPASTGAAKAVGK VIPELNGKLTGMAFRVPTANVS VVDLTCRLEKPA
13636	44004	A	13716	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV

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13637	44005	A	13717	1	1079	GTRRQSAASSFASPAEPHRS DTMGKVKVGVNGFGRIGRLV TRAFNSGKVDIVAINDPFID LNYMVYMFQYDSTHGKFHGT VKAENGKLVINGNPITIFQ ERYPSKIKWGDAGAEYFVE STGVFTTMEKAGAHLQGG AKRVIISAPSADAPMFV MGVNHEKYDNSLKIISNA SCTTNCLTPLAKVIHDNFG IVEGLMTTVHAITATQKT VDGPSGKLWRDGRGALQ NIIPASTGAAKAVGKVI PELNGKLTGMAFRVPT ANVSVDLTCRLEKPAKY DDIKKVVKQA\SEGPLK GILGYTEHQVVSSDFNS DTHSSTFDAGAGIALND HVFVKLISWYDNEFGYS NRVVDLMAHMASKE
13638	44006	A	13718	3	483	
13639	44007	A	13719	2	361	RRFRAGAGYVVESTGVFTT MEKAGAHLQGGAKRVIIS APSADTPMFVMGVNHEKY DNSLKIISNASCCTTNCL A/PPASTGAAKAVGKVI PELNGKLTGMAFRVPTAN VSVVDLTCRLEKPA
13640	44008	A	13720	2	249	SADAPMFDMGVNHEKYDNS LNII/SVMKAGPVEKRP AWHPMDTLP*LAPRSLF LCSNASCTTNCLEPLAK VIHDNFGIVEGLMV
13641	44009	A	13721	1	1079	GTRRQSAASSFASPAEPHRS DTMGKVKVGVNGFGRIGRLV TRAFNSGKVDIVAINDPFID LNYMVYMFQYDSTHGKFHGT VKAENGKLVINGNPITIFQ ERYPSKIKWGDAGAEYFVE STGVFTTMEKAGAHLQGG AKRVIISAPSADAPMFV MGVNHEKYDNSLKIISNA SCTTNCLTPLAKVIHDNFG IVEGLMTTVHAITATQKT VDGPSGKLWRDGRGALQ NIIPASTGAAKAVGKVI PELNGKLTGMAFRVPT ANVSVDLTCRLEKPAKY DDIKKVVKQA\SEGPLK GILGYTEHQVVSSDFNS DTHSSTFDAGAGIALND HVFVKLISWYDNEFGYS NRVVDLMAHMASKE
13642	44010	C	13722	40	243	
13643	44011	A	13723	2	2972	
13644	44012	A	13724	1	602	

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13645	44013	A	13725	1	325	MGRNQSRKAENTKNESASSPP KDRNSSPVREQSWTENEFDELT EVGFRKL VITNFSELKEHVLT HKEAKNLEKS\LEV VAREISQE KEIKVFN*EKRKSNCPLQMT
13646	44014	A	13726	1	981	
13647	44015	A	13727	1	739	MGRNQSRKAENSKNQSTSSPPK DCSSSPAREQNWTKNFDELTE VGFRRLIANFSLKECVLTHR KEAKNLEKSDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RIPQRYSLRRATPRHIIVRFTKV EMKEKMSRAAREKGRVTHKG KPIRLTADLSAENLQARREWGP VFNILK\NFQPRIPYPAKLSFISG GEIKSFTDKQMLRDFFTTRPAL QELLKEALNMERNNQYKPLQK HAKW
13648	44016	A	13728	1	1277	MKEQNGGGGGREEDHKDKGIRQ LPSLLPSAGEAKSDKPEHHNRY RKEIASFEDEKRAMGVAKMAE QEQLQSAAPSMTNAEVGTAHG GRAEAGRGVDSPGKRKVLGDF PFLAKGSRDRLPGKAGHSLPKY YAFTKVLATGRQERN SINISK VIYTKTTSTGHQHQRPKIDKTT KMGRNQSRKAENSKNESTSSPP KGHSSSPA TEQSGTENDFDELT EVGFRRSVTTNFYELKEDVQTH RKEAKNLEKRLDKWLTRINSV EKTLSMMELKTMARELRDTC SSFKSRFNQVEERVSVIEDPIYE LSREDKVRDKKVRNKQSLQEI WDYVKRPNL RVIGVPESDGEN GTKLENMLQDIIQENFPNLARQ ANIQIEIQRT PQRYSRRATPR HIIVRFTKVEMKQKVLRAAREK GPVTHKGN SGSL
13649	44017	A	13729	1	1584	
13650	44018	A	13730	493	575	SHLPMNPANTRSQRNPTKKKQ KKNVC/DNIRELEQQMEDAYR GTRKRM LPSSSSRMRSDGFDEE SQRYWRPKNEISGTLEDDFLK AKSWNRKFYDY EANMPDRWG\ QVAIKSYTLKNLKQTVVISKILP TGRKHLPR*SHLPMNPANTRSQ RNPTKKKQKKNVCG
13651	44019	A	13731	1	655	
13652	44020	A	13732	2	1664	
13653	44021	A	13733	1	2364	
13654	44022	A	13734	1	224	

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13655	44023	A	13735	1033	7511	
13656	44024	A	13736	56	8669	
13657	44025	A	13737	42	8716	
13658	44026	A	13738	1	5046	
13659	44027	A	13739	1	2298	
13660	44028	A	13740	1	2362	
13661	44029	A	13741	1	2046	
13662	44030	A	13742	1	1503	
13663	44031	A	13743	1	813	
13664	44032	A	13744	185	735	
13665	44033	B	13745	317	910	
13666	44034	A	13746	1	867	
13667	44035	B	13747	1	2325	
13668	44036	A	13748	1	430	
13669	44037	A	13749	1	867	
13670	44038	A	13750	35	518	CLSRRASPVYLASMSGRGKTG GKARAKAKSRSSRAGLQFPVG RVHRLLRKGHYAERVGAGAPV YLAAIVLEVAQPLRVLELAGN AA\RSNKKTRIIPRHLQLAIRND EEL*KLPGLP*RIAQGSR/VLPNI QA\VLLPK\KTSATVG\PKAPSG GKKATQASQEY
13671	44039	A	13751	1	937	
13672	44040	A	13752	1	1096	
13673	44041	A	13753	85	1512	
13674	44042	A	13754	3	2377	
13675	44043	A	13755	1	1134	
13676	44044	A	13756	49	408	
13677	44045	A	13757	47	2603	
13678	44046	A	13758	1	378	
13679	44047	A	13759	1	696	
13680	44048	A	13760	3	401	
13681	44049	A	13761	882	1106	KLHPYTTRQYCHFRI*TDVMAK RSRNAVKGLSALVWCALSDF AGFTPDDGCTRATFFTGGWRK RDCRGAVAGG
13682	44050	A	13762	688	1100	
13683	44051	A	13763	476	552	
13684	44052	B	13764	178	1107	
13685	44053	A	13765	1	198	
13686	44054	B	13766	94	625	
13687	44055	A	13767	1	732	
13688	44056	A	13768	1	4443	
13689	44057	A	13769	216	575	PGAGDRYVGKPVSAAGVTAVSC GVWSSMPDATLIASYQAYTSH VGRIRRSRRJR/TNTARADYPAL TALPFNNFRTHNRFNFNAASVL ASIGIGSSLICAARISAHSGAEH KPREPKAANIK



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13690	44058	A	13770	1018	1489	KLPGQRRFVQTPSHVLHTTSLY PTAPAQSSYPAPLSPSQDRAPTL AHQTT*FSASYTANAQWQRVA ADHLKSVRETYAHVRQFSPAL GNAPPDLQPLS*ASCVPKSGAR YSSVIRQNRDRFFRATDHMYVT VPTNRPKMWNPNVTQMNSFRA DTCER
13691	44059	A	13771	1013	1755	GSPGLRPGGAAGKALAPSGCT GNSHRAPM*PGAQAQTRPEKW A*QRP/HVSTGARGARVRALAA VAAAEAAQRAGAAVRAALHT RAAVSAGAARA VVQVVLAAAR TREAGAAAAAQGVAQVQAES AIAAWLQAAPVHPLLTVGALE TGWAVADVGRVRVCTPDTQA AVEAGSICTCHPAHLTPQPVEP TRAGAFKGPGLTTAASIGTRV PVTGPRPRDKASGGSRGAPGA EAAAGGDRDRAEGSSPAL
13692	44060	A	13772	1	1236	
13693	44061	A	13773	1	456	
13694	44062	A	13774	1	219	
13695	44063	A	13775	1707	1853	
13696	44064	A	13776	1	615	QLATFFFGGLPGGSAPWDPPG EACLWVLVRLPGRTVWVIQFV QLRSFFAPPFAHNGRASSGRVS VHYGIAQTAEWAAEICGVGAR KIRELAAIFHQNTIMHFANGG/N PTRRS AVLSSMQGSLPGGCDA VDIHPVARIVEALENPGGAYQH NGMNRHFDPDIRFIWWAGGANF THHQDTNRLIRAWQNDYFRK GRIKAKMGPKLF
13697	44065	A	13777	407	661	ANWIKWRWHRAMHSSSSMWQ TANSLASFISAPVTSSSACRSTL PATRYWCI*WRSSAIWKWVILS GPVATRICTATIWIQLICN
13698	44066	A	13778	1	2448	
13699	44067	A	13779	3	1612	
13700	44068	A	13780	1	1626	
13701	44069	A	13781	3	118	
13702	44070	A	13782	1175	1396	
13703	44071	A	13783	197	933	
13704	44072	A	13784	2	64	IILLNSAPAWM*TFKLGPGVDV NYMLHTQNK
13705	44073	A	13785	1	855	
13706	44074	B	13786	1	1605	
13707	44075	A	13787	1	588	
13708	44076	A	13788	1	2769	
13709	44077	A	13789	813	1341	

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13710	44078	B	13790	1	999	
13711	44079	A	13791	1	281	
13712	44080	A	13792	1	1332	
13713	44081	A	13793	1	1384	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLIDLPEEYLLWFARK DEFPAEARYTHIDLHVPAPLLV MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWFVTFPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTSAVVEETR EAVDTTSQP VAT
13714	44082	A	13794	1	2004	MTQQITLIKDKILSDNYFTLHNI TYDLTRKDGEVIRHKREYVDR GNGATILLYNTKKKT VVLIRQF RVATWVNGNESGQLIESCAGL LDNDEPEVCIRKEAIEETGYEV GEVRKLFELYMSPGGVTELIHF FIAEYSDNQANARGGVEDEDI EVLELVQCGGQIGV PDTVLA VF ATGIGFLAMSVTKPRINAQPYP MPWRNLAQLVEHINRTRIHRNL QFTDAFKRRLIDNICRKNNIIGT HTGQSKFSGQTQQIFGEIPQVVP ASELAAAMKQIKELQRLLGKK TMENELLKEAVEYGRAKKWIA HAPLLPGDGERTDDWMDGRRS RHTDDTDVLLRIHHVIGELPTY GYRRVWALLRRQAELDGM PAI NAKR VYRIMRQNALLERKPA VPPSKRAHTGRVAVKESNQRW CSDGFEFCCDNGERLRVTFALD CCDRLSSRGRNAAAKRQRDDP LRWKFRLP SGGTKLLMPLDQQ APARFAPFVTCTLTILCGTGHV VYTILPIIYDVAIKNNIRPERPM AASSIGAQMGIASPVSAVVSL VAMLGNVTFDGRHLEFLDLLAI TIPSTLIGILAIGFSWFRGKDLD KDEEFQKFISVPENREYVY GDT ATLLDKKLPKSNW LAMWIFLG AIAVIALLGADSDLRSSF/GGKP

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13715	44083	A	13795	3	918	DKTRKRRIRQ*IPNATSFYQNS PNGLSE*LAPAGTWFAFNAPASS CGFRDRYLIVCSHQTPHVPQI TVAAPDARAQAILRIVRQLQRF FHRFEGGHRQHRAKNLLLEHP HIVLTKQNRREFADALQPDPA WQQGTLNGLQWQVLTTPQRP SDRVEIRLLVNTGSLAESTQQS GYSHAIPRIALTQSGGLDAAQA RSLWQQGIDPKRPMPPVIVSYD TTLFNLSLPNNRNDLLKEALSY LANATGKLTITPETINHALQSH DMVATLVFRYLKKGWWRYL KGSTLLSHDPAHPLKQPVEAEK
13716	44084	A	13796	1	1368	MCPIETASSFGGKPLSMVLVIQ MFMLLTGALIIILTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYIILPTYPDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVLALPATVAG VNFTFSNVPLDSSVLSSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLR/PSFGG KPLSMVLVIQMFMLLTGALIIIL TKTNPASISKNEVFRSGMIAIVA VYGIWMAETMFAPACYGYI LPTYPDLAAIQFDRSGTTHIGR FVINHSFILPGLIGVSVSCVFGWI FAAIKRDAAGRAKENVIFHHF PFQSVKADIATNPFKRPGGAFIR ITQTFRTVQTFRLSAYRLDFAG DRLRISTPRAKMRTAFKKDHLR QRRRCIRQRAPPARHNLVGAV ALPATVAGVNFTFSNVPLDSSV LSSLLTDFSTAVGSIVMLAVIM GLMLAFDMGGPVNKVAYAFM LICVAQGVYTVVAIAAVGICIPP LGMGLATLIGRKNFSAEERETG
13717	44085	A	13797	3	2185	
13718	44086	A	13798	1	920	

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13719	44087	A	13799	251	479	TQRVDWRSRSSISPGDGLHAFP AFGKEGGKMLDRLRERRDVKT LQQSGSAAGAEFALAGHPHT GTTA*IQQAINV
13720	44088	A	13800	1	939	
13721	44089	A	13801	1	386	
13722	44090	A	13802	3	524	
13723	44091	A	13803	1	548	
13724	44092	B	13804	67	1144	
13725	44093	A	13805	811	974	VSRRIKLDVTEEFARAGDNKRC ICQ*RHGLAERDIARLLVEIVVI WCDIGVIQA
13726	44094	A	13806	1164	1262	
13727	44095	A	13807	2	894	
13728	44096	A	13808	1	1587	MVKEGTFREDLFYRLNVIHLIL PPLRDRREDISLLANHFLQKFSS ENQRDIIDIDPMAMSLLTASWS PGNIRELSNVIERAVVMNSGPPII FSEDLPQIRQPVCNAGEVKTA PVGERNLKEEIKRVEKRIIMEVL EQQEGNRTRTALMLGISRRAL MYKLQEYDATGFFRDGMTIMV GGFMGIGTPSRLVEALLESQVR DLTLIANDTAFVDTGIGPLIVNG RVRKVIASHIGTNPETGRRMISG EMDVVLVPQGTIEQIRCGGAG LGGFLNPTGVGTVVEERQTSID TSTRKRPFELGRPSRNNDKGIRP VDQALDRKNIRE/ALHDSLKRLQ TDYLDLYQVHWPLRPFYCFGK LGYSWTD SAPAVSQDLTDAL AEYQRAGKIRYIGVSNETAFGV MRYLHLADKHDLPRIVTIQNPY SLLNRSFEVGLAEVSQYEGVEL LAYSCLGFGTLTGKYLNGAKP AGARNTLFSRFTRYSGEQTKA VAAYVDIARRHGLDPAQMALA FVRRQPFVASTL\LGATTMDQL
13729	44097	A	13809	1	618	

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13730	44098	A	13810	80	952	RPGIVALNAILPLSRTRQSKPTR LKKRAIANCAPTWKKRFVALV YRTA*RFPSITLSVAVT*PASAK NKAIKMTQKIEQSQRQERVAA WNRRAECDLAAFQNSPKQTYQ AEKARDRKLKANLEEAIRRSGL QDGMTVSFHHAFRGGDLTVN MVMDVIAKMGFKNLTLASSSL SDCHAPLVEHIRQGVVTRIYTS GLRGPLAEEISRAYCADSHHGP FAMVNNMTDLTAQEPAWQTR DHLDDPVIGELRNRFPGDAFTV QATRTGVPVWIKREQLLEV GDFLKKLPKPYVMLFDLHGMDE RLRTHREGLPAADFSVFYHLISI DRNRDIMLKVALAENDLHVPT FTKLFPNANWYERETWDLFGIT FDGHPNLRWIP
13731	44099	A	13811	92	735	RLLRPLQPRSSVLPGLTTFHAS STSETRQSKPTRLKKRAIANCA PTWKKRFVALVYRTA*RFPSIT LSVAVT*PCVNIITIGCQVKTVT TIATAQIRFTRFNHFSRFQYFR NSPKQTYQAEKARDRKLKANL EEAIRRSGLQDGMTVSFHHAFR GGDLTVNMVMDVIAKMGFKN LTLASSSLSDCHAPLVEHIRQG VVTRIYTSGLRGPLAEEISRGLL AEPVQIHSHGGRVHLVQNGEL NIDVAFLGVPSCEFGNANGYT GKACCGSLGYAIVDADNAKQV VMLTELLPYTDNPEA
13732	44100	A	13812	1	1113	
13733	44101	A	13813	5121	6228	LRRDSGRLRSCWHPRSPTSMGS LGQREDLQDEDRNSGADPGQR GRCSIHLEGGQQPCLQRAVQG EGDPVLAKEEIQDQCHPHGQV QLLLVPAAEPVRAVPPRVQPVL PHHHHPAELSGIREE*GNQNDA EN*TISTTRTSGGLESSR*M/SILP LSRTRQSKPTRLKKRAIANCAP TWKKRFVALVYRTA*RFPSITL SVAVT*PYWSGAPGGPCRRPYC HFRHRGARGSGAPGDGGEAPP AAAFLLGGDVGFGL
13734	44102	A	13814	56	196	CRGDGGKLLIQCQRRMGI*PCG* LRQRKAELFQHLPLC*FWRPEI GTVCSGSIDNGSDRLRR
13735	44103	B	13815	64	2373	
13736	44104	A	13816	3	403	
13737	44105	B	13817	55	1040	

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13738	44106	A	13818	587	1533	VLLTAKFFPSMYSPIKTAGGPA ST*VL*MIISIDA EKAFDKIHQPF MLKALNKSENKIPRNPTYNGCE GPLQGELQTTAQGNKRGYKQT QQHDMHMSTKNQYHENGHTA QGMKGITQPSAFIPTAESNSFQP QVKTLPSPIDAKQQLQRKIQKK QQEQKLQSPPLPGESA AKK SESA TSNGVTNLPNGNPSILSPQPIGIV VAAVPSPIPVQRTRQLVTSPSP MSSSDGKVLPLNVQSHQNCW WTRFNMSSLNVVKMTTISLTSPS NSNTPLKHSASFISATGTTEESR SVPQIKNGSVVSLQSPGSRSSSA GGTSAVEVKVEPETSSDEHPVQ CQENSDEAKAPQTPSALLGQKS NTDGALQKPSNEGVIEIKATKE RRSSPATEQSWMENVFEEQREE GFRRSNHSQIREDSQTKGKEEK RLKELMELKTKVRELREECRSL RSRCDQLEERVVSAMDDMNEM KREGNFREKRIKRNEQSLQEIW DYVKRPNLRLIGVPESDGENGT KLENTLQDIIQENFPNLARQANI QIQEIQRTP
13739	44107	A	13819	590	817	
13740	44108	A	13820	107	410	KGRNIQLNGPSSRVSLWRSLYF LNLNTGLPC*IGEVLLDNIQSV FQLGSILPITFRYTNTQ* IWSFHI VPYFLEALLISFYSFSSKLPFSLH FIHFIFHR
13741	44109	B	13821	1	3735	
13742	44110	A	13822	922	1137	HFFLHFNFGESDNYVSWSFSSR GVSLWRSLYFLNLNVGLPC*IG EVLLDNIQSVFQLGSILHITFR YTNTQ
13743	44111	B	13823	1	954	
13744	44112	A	13824	3	156	
13745	44113	A	13825	683	972	SHRLLRLLHSSRSSPGLVSSSISS FKHFSVLVILFTLMIVSFAVQKL FSLIRSHLSILALVAIAFGVLVM KSLPTPMSSMVLSR/SFF*GFYF FRSYI
13746	44114	C	13826	1	895	
13747	44115	C	13827	372	1727	
13748	44116	A	13828	705	1072	LALLVELIPLPLCNGLLCLF*SL LV*SLFYQRLGLQPLPFFVFHLL GRSSSILLF*AYV*LFWDHFAA AGTGCSFPCLALPSGALVGQA WW*QKSLSICLSVKDFISPSLM KLSLAGYEILG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13749	44117	A	13829	1	1136	
13750	44118	A	13830	547	675	
13751	44119	B	13831	144	1877	
13752	44120	A	13832	1	441	
13753	44121	A	13833	27	344	
13754	44122	A	13834	287	600	GPGSLQSSPLLSPWPASSPLL LRPSVRGWHLGEP*NCFPSPLA AS/EQAPKRSS*PQCNHR*RETA ARGLAYPPDRPLPSMLSCESPE TPAKAGPGRERGCEKC
13755	44123	A	13835	2	226	
13756	44124	A	13836	2	226	
13757	44125	B	13837	45	518	
13758	44126	B	13838	1	699	
13759	44127	A	13839	3	362	
13760	44128	A	13840	2	130	
13761	44129	A	13841	3	96	
13762	44130	A	13842	1	545	
13763	44131	A	13843	2	144	
13764	44132	A	13844	2	91	
13765	44133	A	13845	1	370	
13766	44134	C	13846	1	214	
13767	44135	A	13847	215	310	
13768	44136	A	13848	2	91	
13769	44137	A	13849	1	289	
13770	44138	A	13850	1	997	
13771	44139	A	13851	1	192	
13772	44140	A	13852	2	267	
13773	44141	A	13853	2	181	
13774	44142	A	13854	1	171	MESYAAIKNDEFMSFVGTWMK LETILSKLSQGQKTKHCMFSL TDVIARRRSWTSI
13775	44143	A	13855	92	244	KRRRRRGQIRKMKEEEGNRRT WMKLETILSKL*QRQKTKHRM FLLIGGN
13776	44144	A	13856	146	382	
13777	44145	B	13857	124	1215	
13778	44146	B	13858	1	628	
13779	44147	A	13859	377	484	
13780	44148	A	13860	2	220	WARTSCLKHQKQWQKPKLA NGI*LN*RASAQKKLPSEWTG TWMKLETILSKLLQGQKTKHR MFLIGGN
13781	44149	A	13861	965	1150	GVDQRAVCSSRIW*SHLFLFHS VVVHLPWAGTWMKLETILSK LSQGQKTRHRMFLIGGN
13782	44150	A	13862	254	571	YSYKLEIIGKQPEIYRDP CYRP AV*SQTAVLAISEAPWA*DLPS QVSDTISWWTVC*AHWKS AVL GWE*PGFPGTWMKLETVSLSK LSQGQKTKHHMFLIGGN

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13783	44151	A	13863	62	214	
13784	44152	A	13864	274	435	
13785	44153	A	13865	1	294	ASTAGVSYYVAQAGLKLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETIILSKLSQGQK TKHRMFSLVGGN
13786	44154	A	13866	663	1266	PPLTCQCShLCVTLVGH/WIKLE TIILSKLSQGQKTKHRVFSLIGG AGALAKECMSLYPGCKITVFDI PEVVWTAKQHFSFQEEQIDFQ EGDFFKDPLPEADLYILARVLH DWADGKCSHLLERIYHTCKPG GGILVIESLLDEDRRGPLLTQLY SLNMLVQTEGQERTPTHYHML LSSAGFRDFQFKKTGAIDAIL
13787	44155	A	13867	1	681	
13788	44156	A	13868	1	247	
13789	44157	A	13869	2	178	
13790	44158	B	13870	1	2042	
13791	44159	A	13871	1	378	
13792	44160	A	13872	1	683	
13793	44161	A	13873	1	972	
13794	44162	A	13874	308	406	
13795	44163	C	13875	177	653	
13796	44164	A	13876	1	465	
13797	44165	A	13877	3	1175	FFSSQAAALLVVLGSSHTLQRA RKHSAPGLPDTCALLQPPAASA AAAPSMSPDVPETPSAIQICRIM RPDDANVAGNVHGGTILKMIE EAGAIISTRHCNSQNGERCVA LARVERTDFLSPMCIGEVAVHS AEITYTSKHSVEVQVNVMS ENI LTGAKKL TNKATLWYVPLSLK NVDKVLVPPVVSQRQEE E GRKRYEAKLERMETKWRNG DIVQPVLNPEPNTVSYSQSSLIH LVGPS DCTLHGFVHGGVTMKL MDEVAGIVAARHCKTNIVTAS VD AIN FHDKIRKGCVITISGRMT FTSN\NSMRFKVLLDPAPVVD S FQKRYRGRQCLSST*VSLSQER QV/PLPVPQLVP\ETEDKKRFE EGKGRYLQMKIAKR\QGHAE PQ
13798	44166	A	13878	121	361	SLFELENRSKFSVATAGLVPSR RLSINCIRRAFITSSNGFPLWFCL HQKGPVDCCVAVY*CGTEDGS WAPTHPGVGPSP
13799	44167	A	13879	1	462	



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13800	44168	A	13880	3	287	PCSLSSDCCASNQRDSVGIGPSE PRVGYNILVIRFLSPSEKRSRIV GVTRFSSAWEPSQLAGILPISEP PSNRIFACWGKPAWTACCNSLR ARR
13801	44169	A	13881	1	1332	
13802	44170	A	13882	1	753	
13803	44171	A	13883	1	516	
13804	44172	A	13884	71	277	IYFNTQESFCPPRPLK/LCDGRG CHKGL*NAFKAFSPFSWPLALG SFLLMQISAACLN SFPENGLFFS TT
13805	44173	B	13885	1	1095	
13806	44174	A	13886	1	741	
13807	44175	A	13887	264	2880	WLLQKHKLHVSR*LGL\PDTSW ILPSRPDAGGRFPRTPPCVLVV HKPSRHCREWTANTVLPKGAL AKWLLEPKADLQGWHLPADG QYTKPSISYNIKLYINCYNRTVT TAAQHQQVQRKHGASIFLAEN VAVREKDKEERKVTRAPTEQA WTAGSWIETAYREIKGVGQES VCITVMHLEELVYELAWIIMSA VVEAFDPVAPSSKCRNLNPD PDP YCCTPYTLHTSPPPPPSCCTPYT LHTGPPPPQTPFCCTPYTLDTSPS PQTHSCCTPYTLHTVPTFHLPA AHPIHLHTIPPPQTQGGFVSED EYLEISDIKRDQSGEYECSALND VAAPDVRKVKITVNYPPYISKA KNTGVS VGQKGILSCEASAVP MAEFQWFKEETRLATGLDGMR IENKGRMSTLTFFNVSEKDYGN YTCVATNKLGN TNASITLYVD HIVGSKALLSKCKRTEIITNYLS DHSAIKLELRIKNLTQNHSTTW KLNNPLLNDYVWHNEMKAEIK MFFETNKNKDDTTYQNLWDAFK AVCRGKFIALNAHKKRQERSKI DTLTSQLELEKQE QTHSKANR RQEITKIRAELEIETQKTLQKI NESRSWFFERINKIDRLRLIK KKREKNQIDAIKNDKGDITTY TEIQT TIREYYKHL YANKLENL EEMDKFLD TYTL PRLNQEEVES QNR PITGSEIVAIINSLPTKKSPG

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13808	44176	A	13888	1	629	AMAGSPPPASLLPCNLISDCCAS NQRDVGVGPSEPGVGYSLVV RRFLSPSEKRSIRVGVTRFSRCR PSPLSLTQKGNSLTSWASQVLT PAPEKQPDNKLPLPRGRSDPT EYFHGQEVDRDKSDEHVDHVSQ IHSFRDEVKRLGAEDSSNAETP TELHEFNTGGVYRPPNSTSVIQP LDQGVIRTFKPCYTKYSLEKIVS AVEENPDRT
13809	44177	A	13889	1	1452	
13810	44178	A	13890	167	309	
13811	44179	A	13891	3	386	SVGALQKQQGWHQRRCLSHF PSFLCVFSLAKSRRADHNQDPR ASRMAFSLTSSPLARSAASAVA AFGCGTSGNGRFSSVP*AYRQV FQRIAIAYYGPLMRDR*AHPVK TPDAIDCRIRQPAIPRLQ
13812	44180	B	13892	121	298	
13813	44181	A	13893	473	1826	
13814	44182	A	13894	1	270	
13815	44183	A	13895	3	3706	
13816	44184	A	13896	1	1464	
13817	44185	B	13897	591	729	
13818	44186	A	13898	1	1326	
13819	44187	A	13899	1	1152	

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13820	44188	A	13900	1	2524	MREEFAHRWLRAGEKTPPDA LEKLTDPMLFAAAMVSAGKAD VCIAGNLSSTANVLRAGLRIIGL QPGCKTLSSIFLMLPQYSGPAL GFADCSVVPQPTAAQLADIALA SAETWRAITGEEPRVAMLSFSS NGSARHPCVANVQQATEIVRE RAPKLVVDGELQFDAAFVPEV AAQKAPASPLQGKANVMVFPS LEAGNIGYKIAQRLGGYRAVGP LIQGLAAPMHDLSPCIAATDAG SAAAQRIGDLVSVHVIPRPHVD LEQVFPIGLKAYTATCNHPVSL RFTIKSSSDRIKLSNQTLQSKNL FIMRFYCFSLCLSLSAFYHCRGV IVNIQAVFWLQKGTEAADILTT CAQLWIMMYALLSVFSLLDVIL NLAQKFPAASQLPLKGIFQGIKL IGAILVGILMISLLIGQSPAILISG LGAMAAVLMLVFKDPILGLVA VRNWDNTITTIPTWSLVSDSFK NWSGMSASGGRRIKRSISIDVTS IRFLDEDEMQRNLKAHLLKPYL TSRHQEINEWNRQQGSTESVLN LRRMTNIGTFRAYLNEYLRNHP RIRKDMTLMVRQLAPGDNGLP LEIYAFTNTVWVWLEYESIADIF DHIFAIVEEFGLRLHQSPTGNDI RSLAGVTINKAPGDDEILKNTV DFVSFSYYASRCASAEMNANN SSAANVVKSLRNPYLQVSDWG WGIDPLGLRITMNMMDRYQK
13821	44189	A	13901	1	2370	
13822	44190	A	13902	1	282	
13823	44191	A	13903	1	714	
13824	44192	A	13904	3	506	
13825	44193	A	13905	459	551	
13826	44194	A	13906	401	492	
13827	44195	B	13907	479	702	
13828	44196	A	13908	120	256	

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13829	44197	A	13909	16	1249	SKSGAIEIARLAGRVHGVVVQI TSEIGPLTLLTANFAFSAS*STA WKATSM DGEVLS*YSTSASAS AERQSTHQ*TGFAPLCR*PLPMI /VAQRADDVGFSFEVHGQVRV RPVAQHAQTDKVFALTVNLGR RVFAALGAELGGARSAVRPVP ECYAVRETLALLQKIFPIRCEN SVYRNRSRPCLQYQIGRCLGPC VEGLVSEEEYAQQVEYVRLFLS GKDDQVLTQLISRMETASQNLE FEEAARIRDQIQAVRRVTEKQF VSNTGDDLDVIGVAFDAGMAC VHVLFIHQGKVLGSRSYFPKVP GGTELSEVVETFGQFYLQGSQ MRTLPGEILLDFNLSDKTLLAD SLSELAGRQINVQTKPRGDRAR YLKLARTYAATALTSNFRSIYR SPATDRACQRVETAGNER
13830	44198	A	13910	1	438	
13831	44199	A	13911	1	1200	
13832	44200	A	13912	1	300	
13833	44201	A	13913	1	431	
13834	44202	A	13914	2	1465	
13835	44203	A	13915	1	513	
13836	44204	A	13916	3	535	RDKILVFKDENFWMIRGYAVLP DYPKSIHTLGFPGRVKKIDAAV CDKTTRKTYFFVGIWCWRFDE MTQTMÆKGFPQRVVKHFPGISI RVDAAFQYKGFFFFSRGSKQFE YDIKTKNITRIMRTNTWFQCKE PKNSSFQFDINKEKAHSGGIKIL YHKSLSLFIFGIVHLLKNTSIYQ
13837	44205	A	13917	1	876	
13838	44206	A	13918	23	414	
13839	44207	A	13919	2	425	QERGPHQVIQRKECLREYSPVV S*AKGTGVAVGQKGTQLQCEAS AVSSAEFHWHYKDDKRLIEGNK GVKVENRPFLSKLIFFNVSEHD YGNYSVCVASNKLIGHTNASIML FGPGAVSEVSNGTSRRAGCVW LLPLLVLRLLLKF
13840	44208	A	13920	1025	1270	
13841	44209	A	13921	370	701	
13842	44210	B	13922	1	660	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13843	44211	A	13923	1	432	RFSRVDDFVLTMDDGPPRRAR GDLTHSGLWRVCCIEGIYKGHC FRINHFPEDNDYDHDSSEYLLRI VRASSVPILSTILLGGLCIGA GRIYSRKNNIVLSAGILFVAAGL SNIVGIIVYISSNTGDPSDKRDE DK*NHYN
13844	44212	A	13924	1	1093	
13845	44213	A	13925	1	1203	
13846	44214	A	13926	1	1353	
13847	44215	A	13927	2	445	
13848	44216	A	13928	1	227	
13849	44217	A	13929	1	840	
13850	44218	C	13930	120	356	
13851	44219	A	13931	40	342	
13852	44220	B	13932	403	473	
13853	44221	A	13933	70	2169	
13854	44222	A	13934	1428	1905	RCAATSGYGERVQRTV/PTHTV W*ASLSQSSAHRVVAINSIANK RSSMPPKSWATVALTSTKLKCR FMAKVRNKSFSVLHNV*MTISI/ SPWVILSSGVDEKLFPRAVRVA MTAGASGFLAGRAVWASVVG LPDNELMLRDVCAPKLQQLGDI VDEMMAKRR
13855	44223	A	13935	227	342	VHSWQRYSGR*RGY*PQNQSA TDQTRRWQSLKTAGAVA
13856	44224	A	13936	480	928	FFADLQQPVCADSYPLLVMQK LAPHKS*NAVLWQRSATKSFSV L/AQGLNDHINMPWVILSSGVD EKLFPRAVRVAMTAGASGFLA GRAVWASVVGLPDNELMLRD VCAPKLQQLGDIVDEMMAKRR FIPLRRWVDLALTRWLITVSK
13857	44225	A	13937	564	1185	WLHASAALLRW*YQLPGQPHH RRCRSADGSHVPSLCAAVPDQR \PLITVRRIGMQAMTTSTTGDRQ RSWQIAMDGSQKLQRM LDSV RWHLAHD SKFDLLALGVAGW MRYVGGVDEQGNPIEISDPLL N RMAANRFVHITQLPVIYRAFRN SFTQVARLQLCHKR FQQRHTSV REQIVTVLSGIRDNHVHFVQTL TGDGVGNQRQLVQ
13858	44226	A	13938	228	424	HRFCPAARH/RSWSGLREMAVS ISMPRIJNSGRYCAICWYKRRS RCARNMLIFVARSTPIGPS
13859	44227	B	13939	128	1670	
13860	44228	A	13940	2	2367	

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13861	44229	A	13941	1	921	ELPASAPCARTPQPLGGRWEA ARRKERVLCFLFDVDGTLTPAR/ QGRCLKIGSSHRECHADTPEAE CGVCSSVTEVRAKWRSTQC*KP ECYASPLPP*KIDPEVAAFLQKL RSSYLPVGSQTWSHTLSSSCPLC DPEVIGRDTVPSVSGSGSPGHAQ SPVFLGQTIQNHLGPGGARFEF RA/CSGSLWLPALPHH\RGTFIEF RNGNCVPSQGLAHSRSELPSA PSPLQKEQAALLLALSAPPSRE* QSPPLPTGGMISFDVFPPEGWDK QVRSSQCGEGLHLNIPPLPILCV QGGNDFEIFADPRTVGHS
13862	44230	A	13942	105	416	HSVLEVGPPWWEVFGSWGQILH SLVSSHVRHWLLPSPSAMTES SLTFQKPSRCQHHASCKAYHS HQLLLVPTAGRLEDRSHH*IPC KHSPAPAWSLAAPVGN
13863	44231	A	13943	191	573	SSSGGYQQQLMRVIGTRDTAV NKASNVPSFGA*/PSGRGQQAK LIALTRALTLAKELHVNIYADC KYAFHILHQHDVIWAERGFLT VQGSSSIINASLIKTLKATLLPKE AGVIHYKGHQKASAPIA
13864	44232	A	13944	1	1065	
13865	44233	A	13945	321	537	
13866	44234	A	13946	346	1260	GGPARAEFSRHLGCKGHHPLPK DVASEVPAGSSTSVSSLIRTNGC PGLGSWEPP*FFSENKRLSTLMS FTLRDSKMFSPQSGLFLGCSAG EHSALRDPTASGLPGTASGVRP GR/RQRVGSDIEASTQGSKPCI LSI*TLPPNA*LKTKLTLPLEIAAC TNPHSFSITARIGPAHLAARPV TPAGRGGARAPGR*CAAARPPP ASQ*VSGSPAPGGGPPSYAPAA RTS*PSSLAPGAKRLRFSRVATFC CSFLAWSSSSNKAFC*EHMSL LSSWISQSLEKVASCCPCEQFDS WKRLLENILLFS
13867	44235	B	13947	1	459	

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13868	44236	A	13948	63	1263	VEAAKKAHHAACKEEKLAISR EANSKADPSLRPQAHTYALSPL FLTAMPSV*QGEHVIYTRVRHS DQVSESSGKPLSLPLLEPGIWAF EAAQVPPRWDQVRSLEPTTEW EAPGLKKRRVSQGLNGNEPLSC AWIFL*TKEKYEKSLKELDQGT PQYMENMEQVFEQCQQFECKR LGWDKG*LAPAF*KSHVSL*FS YKAIYHDLEQSIRAADAVE/DR RGFRK**TFGFSPSAPVA*EWS ADLNRTLRSREKKKATDCQDP HGPLQSWDPLKALSLHSTLNVP SNPAQSAQSQSSYNPRGPHTLC RPVLRALWPPLSCSVSSYEKTQ SYPTDWSDDSENPFSSSTDANG DSNPFDDDATSGTEVLCSPPSV SYLSWRRLPLCLAGDELTKME DEDEQGWCK
13869	44237	A	13949	2	485	AAAFGTRLSRRGRGCGVTGSG GGRRRVPAARRRPSLPQPPHQ/P PRRPSRRTPGCGSRGA\PSRGRR LVPPPPEPPRAAQQRARH\HRTS \RPAARQPPRRPPAQPRSCPRRV RPTPAWSPPGRRGPRRSRRRRR RGGRARARRRRRGQVPRPQS ATGAGHAR
13870	44238	A	13950	1	207	
13871	44239	B	13951	1	5297	
13872	44240	B	13952	1206	1360	
13873	44241	A	13953	46	369	NEGKNAKGSQRERSGYPQREA HQTNSGSLGRNPTSQKRVGANI QHS*RKEFSTQHFISSQTKLHK* RRNKILYRQANAERFCHHQEGS TKHGKEQVPAAAKSCQNVK
13874	44242	A	13954	476	868	KYDCCISSTFCRALVHFSRTTFQ VNSPLSPNISAFGYMPLKYSIYF LHHLRPNIL*AASYFLKYKGT KLPALRGCLS*STRCWCKIHICI *ND/ECLQLGPWFENEFCFLPS TSQFVEFVLDILVLQNEP

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13875	44243	A	13955	1770	3003	PANIIMTGS\NSHITILTLNVNGV LNAPI*RHRPAIA/S/WLKSQDPS VV\CIQETHLTRCDTHRLEIKG WRNIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMAK GSIQEEELTILNIYAPNTGAPRFI KQVLSDLQRDLDAHTIIMGDFN TPLSTLDRSTRQKVNKDIQELD SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKTDHIVGSKALL SKCKRTETITNCLSDHSAIKLEL RIKKLTQNHSAWKLNSLLLND YWVHNKMKAEIKMFFETNENK DTAYQNLWDTFKAVCRGKFIA LNAHKRKQERSKIDILTSQLKE LKKQEQTNSKATRRQEITKIRA ELKEIETQKTLQKKQPNKDPAM EKNKKTDRVLARLIKKREKN EFSAHILYKFSKQNGS
13876	44244	A	13956	105	392	RSRKPRGNPKSHPEDTDPTKAP RKRQISSRGHRSHR*EPGPQSAA PGFREQRRRGQMG*IWYLTPTP PGGQRPSSAASPRGFPTNNSSR LPAEPE
13877	44245	A	13957	55	403	SEGMSGKASEKQEAFCPRHLT RAVDGPS*SGLLGSRLPPSCSPG KEAPGGSELYLCLMRGLQTL*A RSGTGRL/PNP AEIR*EPGPQSA APGFREQRRRGQMG*IWYLTPT PPGGQ
13878	44246	A	13958	217	444	RSRKPRGNPKSHPEDTDPTKAP RKRQISSRGHQSHR*EPGPQSA APGFREQRRRGQMG*I*TPCRP ALPKSKPRPL
13879	44247	A	13959	309	670	PCPRASSQGLKATH\GQR*SSEP PGASFPGLQDGGRRREPRRPD*D GPSTGLVRCLGHANVGDPCLK VFVFFKNLSPTYLRASAEQTL LLLPHLHGLCLHQLHLGFTAA WAQLTFWEASQ
13880	44248	C	13960	392	760	



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13881	44249	A	13961	24	915	HAGRHARGSLFPGARPSETRAH CVRTARPNCKEEDTPMVRGKN SGGEHCTWGPSLAAGG*GIGDP GGLPGTVPHPGLQLLLHGFAGP HMASLCCGVSSPAGVRQWPA* GSGNHQVKS WLGLPKNV S*AP SML*NPKMQRLMKAQPHGRCE VRRGRVCSALGP/IGMSGKASE KQEA*DEGHPHLHAPGT*QDQ VDGPS*SGLLGSRLPPSCSPGKE APGGSELYLCLMRGLQTL*ARS GTGLRANPAEIR*EPGPQSAAP GFREQRRRGQMG*IWYLTPTTP GGQRPSSAASPRGFPLV
13882	44250	A	13962	397	612	RPQHHTFCCDGRVMMARQKGI FYLTFLILGTCTLFFAFE/CSFG *VELPDYGYFGSRGRT CFLGSL GLVLG
13883	44251	A	13963	125	1298	FQSWAQPLFLLSCNRKTHFGTR IPIMSVMVVRKKVTRKWEKLP GRNTFCCDGRGMMARQKGIF YLTFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSMAT L\LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQQQRPPRIK NFQINNQIVKLKYWYTCKIFRA SRASHCSICDNCVERFDHHC PW VGNCVGKRNYRYFYLFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTVLEVLCFFTLWSV VGLTGFHTFLVALNQTTNEDIK GSWTGKNRVQNPYSHGNIVKN CCEVLCGPLPPSVLDRRGILPLE ESGSRPPSTQETSSLLPQSPAPT EHLNSNEMPEDSSTPEEMPPPEP PEPPQEAAEA EK
13884	44252	A	13964	44	647	DYSAQH GKASQKHVARLISSGT FQGATVSRPFQLSTSSSSFCSSSS SLSSSSSLSSSLLSCSSES VFLS LSFFFCSEASFLPFC SRLYASRA SFNGVTNRWNSISSMAESTSLA FSVFRFPFI AKLLAQDVAYSTKT LAAREIGAPGLLDGVDTVREL R GDRG*AKLPFQHLLPSCPFVRPP RAAHRLLDDPGDHGIGQV
13885	44253	B	13965	158	1075	

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13886	44254	A	13966	125	1297	FQSWAQPLFLLSCNRKTHFGTR IPI\MSVMVVRKKVTRKWEKLP GRNTFCCDGRGMMARQKGIF\ YLTFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSM\AT L\LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQGQRPPPRIK NFQINNQIVKLKYWYTCKIFRA SRASHCSICDNCVERFDHHCPW VGNCVGKRNRYFYLFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTVLEVLI CFFTLWSV VGLTGFTFLVALNQT T NEDIK GSWTGKNRVQNPYSHGNIVKN CCEVLCGPLPPSVLDRRGILPLE ESGSRPPSTQETSSSLLPQSPAPT EHLNSNEMPEDSSTPEEMPPPEP PEPPQEA AEA EK
13887	44255	A	13967	247	850	DYSAQH GKASQKHVARLISSGT FQGATVSRPQLSTSSSFCSSSS SLSSSSSLSSSLLSCSSESVFLS LSFFFCSEASFLPFC SRLYASRA SFNGVTNRWNSISSMAESTSLA FSVFRFPFIKLLAQDVAYSTKT LAAREIGAPGLLDVDTVREL R GDRG*AKLPFQHLLPSCPFVRPP RAAHRLDDPGDHGIGQV
13888	44256	B	13968	298	380	
13889	44257	A	13969	48	252	QRAGSPHSPRSLAPPLPELPLW RHLRSPSAHRCTVGAPFWDGQ G/LEPAPSAALAAFP SRARDLQ LA
13890	44258	B	13970	1	447	
13891	44259	A	13971	236	559	MWLEPMQMGLHMMMEKMAA RTSAILD*GTK*FHFTLT TSLK ALSSHTPIFPGTGELQLPVSPSV CLDQGMQLKPSTSSHLLKTVKP RMKRQSLLHMKQSFE PKIYL
13892	44260	A	13972	1	645	MKPQTLTVSVTAFKVAHLEFVP SDVQMCSEFLPSGGFVVS LASG VKLQTF AVSFAHKSSVDPKNS EAQLASPSGFCTRAADGAACQS \LPCTCTPQLGGRWDWALWS RGW/LLVEEAWAAQEPT EELRE RALALASPERGSHSAAVGQRAP QVPPKWEPRQRRRRERARAVR TASTLSPLNPPSKQDTLTAVGN LADDHSSYFLLD RGE EGALQL
13893	44261	A	13973	28	322	
13894	44262	A	13974	1760	4426	
13895	44263	B	13975	942	3414	

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13896	44264	A	13976	1	274	
13897	44265	A	13977	545	1150	RISGPGAVLLPVMPALWRLRHR MFSLTKK*HLP AHRSLAEGYLL YQPQLDTLKARLTQKYQELQV LFEAYQIKKTKLDRQSSASLET LLALLQAEGAKIEEDTENMAEK FLDGELPLDSFIDVYQSKRKLA HMRRVKIEKLQEMVLKGQRL/S TRPWPRCPPGCPNWHLPPPFPT LPQSQWASCRCTSAHPPPTTPG AAGRL
13898	44266	B	13978	213	611	
13899	44267	A	13979	1	639	MEAVTVVPVGTTEEGMGEEEQD SGTTTGCGLPSEVKMLATNPGK TPISLLQKYGTRIG\TPVYYLL KAEG\HQPNTFW\VGNTSCT AQGPRKKVVKHAAEVALRHL KVESMLEPAPEDSSSFSPDSSL PEDFPVFTAAAAATPVSSVFLT RSTPMEKQPPLP\QQSECIPVG ALQKLVVQKGWWLPEHTVT*E SRPDQHEELT*RVERFT
13900	44268	A	13980	361	894	AFFPMSTAGVCGNVEGEPETP WSLPLSQVPFSPNA/CPQGT LGR S*AGVAGAPGPGVPGRSPAA\GI PEPAARPGRPALSRLPGLGGAG ARSGAA*G*GSRPGG/PLPAADP VQSWGP*EAPSHP*PGT\SADSP PSGVSGATGDCLWGSGRAELF GFATTSSAAPFPGLPTFFFIPVSP
13901	44269	B	13981	1	3842	
13902	44270	A	13982	3	407	DAWAAARPGRSCALPPPGA/PE EPGHVPGAA*G*GSRPGGRFQL PDPVQSWGP*EAPSHP*PRNFPQ TRRHLGVKQHGCSQSPHGSRA SQAHPGISGLF/GPHHPGPPLFIH GPRCCCAQATASNHLFACGTSS DP
13903	44271	C	13983	127	297	
13904	44272	A	13984	3	1920	

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13905	44273	A	13985	3	2271	GQGRRTAGGGGGGAGVGAG AGAMEAERGPERRPAERSSPGQ TPEEGAQALAEFAALHVWSGE GIGVGSPAHTPADGNSGPQVFD AGEVFGIMQVEEVEEEDEAAR EVRKQQPNPLAPPTSLCPMPTR QPHIVACARSIFLIDHAWTCRV EHARQQLQQVPGLLHRMANL MGIEFHGELPIWVPEGSSGGW MGEREVPYVLCCLQTAEKMPV WYIMDEFGSRIQHADVPSFATA PLEEGPQPSVSPPLMGTH/DL GTEEVTRDFAYGETDPLIRKCM LPLSSSHRGMETPCVHTSRASL PLQACELPSWSLLLINEPPRPAF PSLP*PHLYFRCVSF*AIPGLVLE SRLDTWEPGSPSSGSPHRVYTD VQQVASSLTHPALPVRASRHCR PPLELAHLPPPCRKLSQERPGVL LNQFPCENLLTVKDCLASIARR AGGPEGPPWWVLGWHLGTQ APGAPQTALLPRGEDNHWICK PWNLGLCVLGSPRGLCPGHQR ACTCVLQVVSKYIESPVFLRE DVGKVKFDIRYIVGGTSLAGTR PLKNPYVSAHLSSRAFAQGRRG RGGPTWSGWLLARDPARV*DL LSSLVHsverCPMQWALSEWQ LHHLSTWSSGLCGLAG**VFQM HRTPTPP**QAACSRPSGGLYR A*WALCLLPGAADPLLRCSEQ AS*LRLPGPQAEIFRAFTLQV
13906	44274	A	13986	1	600	MEEQRVQFTLWLHFSPHGICQF ESGRQEAKKLKSGQPLKTGEI KTGIQKYRREALLQHLYGPASL AGRSKALTGTAERSCSSGSDSSI FTLCVNYNDSRAIMKTAAIGT GFDCASKAEIQLVQILGMPPER FMYANSCKQMSQIKYTANNGV QMMIFGNEVKLMSVARTHASKQ P/CHISVKSGAMLKASRLLE*A KEL
13907	44275	B	13987	1	2040	
13908	44276	A	13988	205	438	LYFLETGVFCVQVPAQQC*CSV PGSCRRPLEEAGWRGLCLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLS

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13909	44277	A	13989	284	632	KTGVFCVPGPRPTVLM*CSFVG GKKNQYCLTGDAGCLQEKLHSL GPAGV/HLEEAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSPFEP
13910	44278	A	13990	594	1003	VRKGHHA VRGLCGRAQFRCIS GDPGKRPLG/LPGGNAPKSGSL ARRPQPVRI PGSRPQ/RGSVSHL GPAGVH*/R/RAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSPFEP
13911	44279	A	13991	1	1500	VRVAHIPIAAAEIAAIPDRGGHL SVGKRKLTFWFFYGVLPRFDV AIEFSPEEWECLDSAQQHLHRD AMLENYGNLVSLAAGDQSLPG DAAASAVCRQLSPSACGAILGL PPVNGVAPVRLRGEIVTYTWSQ LTGLALALSKDGADGLRRLTRP TRRAPALLLAPQTAAERWRG KCDPRHGGGCALALQGWTLYP RESPSRESKELGGLWSFRADLD SRRQGFEEQWYPRPLRELGRG GRRPEARRWEGGSPGCRLLPL SAPELAPYRKLKVNGLRGAGL GDGETGGTGEGRGRRRKRC RTLSRDEGFNDICQDWLQRQF VGWVLYEQEVTLPQWTQHLR TRVVLRIASAHSYATVVSAA RSRQGRGIGGLIYTLGMPFFLSGW QVPEPHAAGYVRECLIAGPLLM P/TTCCPLLISPVS AVGEWGRHA RA*GADSSSLVQNTDFDFNYA GLQR\SVLLYTTLTTYIDITITT GVEHDSAEIPIFPEYLRVNTGN
13912	44280	A	13992	2	307	
13913	44281	A	13993	220	427	MSTLPFPSLQMFRPPYGPSTC RSQDNRSYSRVTEELQERRRW NSGDAN*DQSPEARRRQRPHIE EAA

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13914	44282	A	13994	1	2832	MGKYYTQGDKVLMP LAIQVH H A V C D G F H V G R M L N E L Q Q Y C D E W Q G G A Y P K G Y F V Q N T D F D F F N Y A G L Q R S V L L Y T T P T T Y I D D I T I T T G V E H D S A A A P M V D S L I A R V G V M A R G N A I T L P V C G R D V K F T L E V L R G D S V E K T S R V W S G N E R D Q E L L T E D A L D D L I P S F L L T G Q Q T P A F G R R V S G V I E I A D G S R R R K A A A L T E S D Y R V L V G E L D D E Q M A A L S R L G N D Y R P T S A Y E R G Q R Y A S R L Q N E F A G N I S A L A D A
13915	44283	A	13995	1	2934	M I T F D F M S H I Q V T L M Q E V S F H G L G Q L R P C G F A G Y S P P P G C F H R L A S S V C S F S R C T V Q A A V D L P F W G L E G T S P L L A A S L G S A P V G T L C G G S D P T F P S W T A L A D V L H E E G H T P A S N F C L R N L A G E A S Q S W R K E G L G T P R P T A S S T E E L Q T L N E D S R L M T S P H N L E E T R D C D E L P K K S L G W K E I R V Y G Q N K T L G F W L Q A Q L L I C D G G N L R M F R L L P Y G S P S T C R S Q D N R G Y G G V T E E L M E R K R W N S T D G F H I Q G V L E
13916	44284	A	13996	68	425	S H I L P G A P G A P A W W T R W P S T L P E P F P R G R G S P A G T S P I S R P G L V Q S S * A S R G S D S R L P V / G P A S C Q A S G P G P D S R R P P P C T P A \ G P H H G S L P S A G R V G A S A A A A G P P S P A V P L P P A E R P A P
13917	44285	A	13997	324	723	T A F S L N F Q G G V E G E V W A G T R A A R G A C A G E R G L G G S R T R S G W / P G T A G P G Q A G H G T C S L P C P S L P P A M G S C V S E P P R Q A P P P A P W R L V P S T A Q G L R S V G T Q C G T G G S S A C G P C \ G D P G F * T H Q S A P C Q N G P I S S L
13918	44286	A	14000	39	383	

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13919	44287	A	14001	181	1446	EDLLQEAQALAEVTAQGKGLG QVRSLDLSLEACAGSPPLQVLD LQDREPRSLTSLPSSAANRGKL EKAQSNPCGHRHQAAGLKLP LFSAQAPQGGPTPAPRFRAATR KPGTAQSHAPLWSPAMSFFPEL YFNVDNGYLEGLVRGLK/ALGE LSQADYLNLVQCETLEDLKLHL QSTDYGNFLANEASPLTVSVID DRLKE\KMV\VEFRPHEGTMPY EPTSPSFP*TSITLQFT*FDNVI/L WLIHRARLHQRSIAELVPQVAH PLG\SFQMEAVNIAQTPAELY NAILVDTPLAAFFQDCISEQDLD EMNIEIIRNTLYKAYLESFYKFC TLLGGTTADAMCPI\LEFE\NR RAFINT\INFFG\TKTVPKKDRCP AFFPH/CGAGFFPEGPAAMGFG LNNLLTGAKKRGPNFPEVQL AFLRGDG
13920	44288	A	14002	1	1182	
13921	44289	A	14003	26	342	ARFLAGP*LPSRRTGLRDLQPA MPEPPPTPWAPVRPEPPRRAPP PAPRRPVPSTGKEQTTQGLRSA GAGHRDWQAAPPAAPVRDPLG EASWAPESGGDVESLYV
13922	44290	A	14004	66	463	
13923	44291	A	14005	3	1446	
13924	44292	A	14006	221	852	NSFLMVGFPPFFSL/CAAFDTKT GLRVAVKKLSRPFLRPDGYYTE FNIYLLNFYILTSSAV*VVLSH SVVIECLLSIRHCSRYFRKSSD KNFLRGSRLLCNFSLSRYLVTH LMGADLNNIV*RYR*YK**FFK MNSPFLPLPVGGELIMHHKVDP VCFVFFSLPVSKS*QFVCSSAL *ILD FGLARHTDDEMTAKGQPE CFVRWACAS
13925	44293	A	14007	55	784	RHIQDPASQRLTWNKSPKSVLV IKKMRDASLLQPFKELCTHME ARGAGGGHDARSLTTAPVSRE PPCRRVGSAGGMSRLALCFQEN MIVYVEKKVLEDPAIASDESFG AVKKKFCTFREDYDDISNQIDFI ICLGGDGTLTYASSLF/QGNAA VVLRSRLKVRVVKELRGKKT VHNGLGKGSQAAGLDMDVG KQAMQYQVLNEVVIDRGPSY LSNVDVYLDGHLITTVQGDGVI VSTPTG

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13926	44294	A	14008	155	1592	PESRHQCFSDRSANFLTMEMEQ EKMTMKNKELSPDAAAYCCSAC H\GDETWSYNHPIRGRAKSRSL SASPALGSTKEIRRTRSLHGPCP VTTFGPKACVLQNPQT\IMHIQD PASQRLHVEQRPPRTVLVIKKM RDASLLQPFKELCTHLMEENMI VYVEKKVLEDPAIASDE\SFGA VKKKFCTFF.EDYDDISNQIDFII CLGVDGTLLYASSLFPGQPSPP VMAFHLGSLGFLTPISENFQS QVTQVIEGNASCCSSGSRLLKGQ GW*RSLRGKKA\VHNGLGK G\SQACRPGTMDVGKA/QAMQ VPRS*NEVVIDRGPSYLSNVD VYLDGHLITTQGDGKARSTV LGP*ASLGRE*RLRLSLSGVIVS TPTGSTAYAAAAGASMIHPNVP AIMITPISRSVLPTAGGPHLSLL DPQIMLSPEARNAGGGPFWKP WLRLLLSRPSISITTSCYPLPSIC VRDPVSDWFESLAQCLHWN
13927	44295	A	14009	327	466	
13928	44296	A	14010	2	196	
13929	44297	A	14011	923	1776	WRKCGCETAGSASATRAAATE KMEAPRNKMCRDQENSAWRN AVPGP*E*RQPEEFPRTTTILAE TVLSRRKCRPSEKRGSAATEKFG ATSAVTENPPLGAAGERANKTL GAATVTPTLGPRPRMEKGGTR CPSTL*PSVQERQPESPSGNHPE TQKIEFAGRRVTFQHRWATTLR TRISGTGASPRDRSAFFGFPWC G/AAQPSDEESTPATQEEAQAQ AGVAAAASSEEPGHCAPRPPHA PRSA LFEDWSREPERSDGDLS ECRRPATEPWRPPGSAWRLPCA A
13930	44298	A	14012	568	1223	SARGLLPGSGPLSHAGPQLQVE WFGCLPPPDSTLELVVCGTVAI SRVRMSAVCVLRTWS\RNAG\Q LI\CFTVFQPCSNVHVL/KGPNY VCFFG\YPSFKYSHPHNFKTI NAVCGQ\LVQFRFPDTEEGIRK VTV/KCYVKEGDTV SQFDNIGK VQSDKASVTIASPYDGV\IRKL* HSLDDIA YVGKPLVNIETEALK GTVNLFYQIDYCPFFVIGSQLK



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13931	44299	A	14013	5	296	LFSRVPSKGPTRYHHTSSRG*TR AD*LISS\GNS*AHCIPSGLQGM LNLLPTPRAPVRPEPPRRAPPA PRRPVPFDHPRACGTGRQLHLQ PRCGIH
13932	44300	A	14014	1	376	MQAVLLTVLQKHNQSVIYWY MKYIYYEGLVIMDDYDYVIMD YMTMETEKSHDLQAGGPGKPV VQFQFKPKILQASRGNGVKSWS KSKGLRTRCANVQQQENREGP AKHSPFLCLFVLFGSSTGRMIPN HTGDTSKVIAGTEERGVPKKVT LKFDACAAIDRPWAHQLDCTY HFKGSNDEHDSRLHTNAG*L*L C/RLWIT*LWRLRNP MICRLEA QESQWYSFSSSPKCKPVEAMA LSPGPSPKA*EPGVLSKGRKI GRAQLSIHLSSAFLFFSAPQQVE
13933	44301	A	14015	1638	2289	VEKKKKPMSAPALRLPDLTKLF TLYVSETKKMAVRVLTQTVGP WPRPVALLSKQLDEVSKRWPP CPKSLVAIALLAQEADKLTLRQ NLNIKSPCAVVILINTKGHH*LM NARLARYQSLLCEHPRITLGSL QHLNPATFLPVSESPVKHNCVE VLDSVYSYVGPNNHRDHPLNISR LGAVTWMGSSFHQPLQSDTLK KTTSPGSSHTRKLTGPRTAEA
13934	44302	A	14016	1	675	MAPPLRPLARLRPPGMLLRALL LLLLLSPLPGLREGIGELITPIGT SLPDLDPARRRWEGGIGRVGSE VADLCPGKEGGKVPEAEKEGV WCFSELSFVKEPQDVTVTRKDP VVLDCQAHGEVPIKVTLKNG AKMSENKRIEVLNGLYISEV EGRRGESDEGFYQCLAMNK\F *AILNQKAHLALSRIGST*RRRP DRP*EDEAFVMTTHCFQDLLTS
13935	44303	C	14017	18	329	
13936	44304	A	14018	391	895	WASSDTPTGFTQRWRPDWAGG GGGEERGDGTGVVWEGEKVY RFRRVTGGSSFPSPAFLVRAPN TGMPLTYIQT*GPLGERGKEP VPPN\PTLPQTFGGLLNASVVRK TEIPSPSPPPVCYLASAERQ/PA GGSPQAKWRAASSPPPLPPVH LPPPPPPRPPPPPP
13937	44305	B	14019	1	1110	

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13938	44306	A	14020	282	710	YPEPQGWVRVAHTVQYPIHIQPL KPGPRGR*SIMDIQVPPKEGGV LILKN\SSRLNSWTQGCLQISA FSPTSSTLPGTPWSNVGPYKIAP ITSFGE\PFIRVIWKQLPSWISIIQ V/SHKQ*QIHRSVDIGWSPGQEC GPKGCFV
13939	44307	A	14021	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTGDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPAR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLPHKWC WENWLA VCRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTL
13940	44308	A	14022	1	3450	
13941	44309	B	14023	1	3171	

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13942	44310	A	14024	1	2433	MRTKTQHTRISGTHSKPVCGRGK FIALNAHKRKQEKSKIDTLTSQ LKELEKQEQTHSKASRRQEITKI RAELKEIDTQKTLQKINESRSW FFERINKIDRPLARLIKKKREKN QTDTIKNCKGDITTDPTIEIQT REYYKHLKYANKLENLEEMDKF LNTYTLPRLNQEEVESLNRPI AEIVAIHSSLPKESRTGWIHSRI LPEVQGGTEKEGILPNSFYEASII LIPKPGRDATKKNFRPISLMNI DAKILNKILAKRIQQHIKKLIHH DQVGFIQGMQGWFNIRKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQRFLKTLNKLIGDGT KIIRAIYDKPTANIILNGQKLEAF PLKTGTGRCPLSPLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNTQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKDDTNKWKNI PCSWVG RINIVKMAILPKNWKKTTLKF WNQKRAHITSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHTY NYLIFDKPEKNKQWGKDSL FN KWCWENWLAICRKLKLD PFLT PYTKINSKWIKDLNVRPK TIKTL EENLGITIQDIGMGKDFMS KTP KAMATKAKIDKWDLIKLKS FC
13943	44311	A	14025	1	1023	MGAIDYDKPTANIILNGQKLEAF PLKTGIRQGCPLSLLFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDPISAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNI PCSWVG RINIVKMAILPKAICRKLKLD PFLT LTPYTKINSRWIKDLNVRPK TIKTL TLEENLGNTIQDIGMDKDFTSK TPKAMATKAKIDKWDLIKLKS F CTAKETTIRVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKS NNPIKKWAKDM/NRHFSKEDIY AAKRHM
13944	44312	B	14026	1	2206	
13945	44313	A	14027	1	1689	

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13946	44314	A	14028	1	2523	MKQFLLYLDESNALGKKFIIQDI DDTHVFVIAELVNVLQERCHTR LGYTEFLVAWRVTFGLCVEAV TLHLKYQILIRGLLEMMSFSDA DILKQLPVTVPGLFPASLSPSSL LGNSPPSWLRHNSESKVSAVSS PSATKTLSTGIGKLDPGHKEMA ESELLKNKMQAPPLSRCPEQ KCQHQLRLHHWKPSVRHQVKR RSPAVLRSAMPPADCPAVLEAT TATHPEKGTALSKHLPSSDSMS LKVDVEALENSPGATYIWKGG KVTRDSQPKEQGKGDLLKKKK GKLPKNYDPKLTDPERWLP QECIFYQGRKKGKKKDQMGK GTQGATAGASSELDDARKTVSSP PTSPRPGSAATLSASTSNIIPRH QRPAGAPATKKKQKQKKKKG GKGFPVLREITVVKVDTLVVFQ ILEERLSVFHIQYDTSYPFSTVDI EDHECAVWLLLRKSKSDDKTT RLEAVREMSETHHWHDAEKAF DKIQPFMLKTLNKFVGDGT LKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLFNTV LEVLARAIRQEKEIKGIQLGKEE VKLSLFAGDIIVYIENSIVSAPKL LKLISNFSKVSEYKINVQKSQAF LYTNNRHTESQIMSKLPFTIATK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNEWKNIPCSWVG RINIMKMAILPKVIYRFNAISIKL
13947	44315	A	14029	1	2868	
13948	44316	A	14030	1	3099	MGELITPLSTLDRSTRQKVND TQELNSALHQGDLDIYRTLHP KSTEYTFPSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKKRQERSKIDTLT SQLKELEKQEQTSHKASRRQEI TKIRAELEKETQKTLOKINESR SWFFERJNKIDRPLARLIKKKRE KNQIDTIKNDK
13949	44317	A	14031	2	3419	

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13950	44318	A	14032	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRKLNLTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEIETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTIEIQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK \\RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNLY IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
13951	44319	A	14033	845	1616	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNIP PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMTFFTELEKKNWLAI CRKLKLDFFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATKA/KKS FCTAKETTIRVNRQPTWEKIF AIYPSDKGLIS

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13952	44320	A	14034	707	2878	TLMQKSSIKYWQNESSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIIISIDAEK AFDKIQQPFMLKTLNKLGDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLIRNFSKVSQYKINVQESI AFLYTINRQTESQIMSALPLTIA SKRIKYLGIQLTRDVKDLFKEN YKPALLKEIKEDTNKIWKNIPCS G\EGRINIVKMAILPKNWKKTTFF \RFIWNHKKRACIAKTILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNIDIDQWNRTEPSKIIPRI YNNLIFDKPDKNKKWGKYSLF NKWCLENWLAICRKLKLDPFL TSYTKINSRWIKDLNVRPKTIKT LEGNLGNTIQDIGMGKDFMSKT PKAMATKAKIDK WDLNNLKSF CTAKETTIRVNMQPTWEKIFA IYPSDKGLISRIYNELKQIYKKK TTNPICKWAKDMNRHFSKEDI YAAKHKMKCCSSLAIREMQI KTTMRYHLTPVRMAIHKKSGNN RCWRGCGEIGTLLHCWLDCKL VQPLWKS VW*FLRNLELEIPFD PAIPLLGIYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTII DWIKKMWHIYTMEYYAAIKND EFVSFVGTWMKLEIILSKLSQE
13953	44321	A	14035	869	3869	RHKKPFKKLTNPGAEIQTIREY YKHL YANKLENLEEMDKFLNT YTLPRLNQEEVESLNRTITGSEI EARINSLPTKKSPGPDGFTAIFY QRYKEEMVPFLLLKFQSIEKEGI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANQI QQHIKNLIHHDQVGFIPGMQG WFNICKSVNVIQHINRTKDKNH MIFSIDAEKAFDKFQQLFMLKT LNKLGIDGMYLKIIRAIYDKLT ANIILNGQ
13954	44322	A	14036	2	99	

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13955	44323	A	14037	1	914	TVTVIHTVARVGNLDIQIRKS ELFLSLVVCEAIKNEMNVM LKS SPVDLVTATDQKVEKMLISSIK EKYP SHSFIGEESVAAGEKSILT DNPTWIIDPIDGTTNFVHRFPFV AVSIGFAVNKKKKVDETYLGL VKETCFPLQIEFGVVYSCVEGK MYTARKGKGAF CNGQKLQVS QQEDITKSLLVTEL GSSRTPETV RMVLSNMEKLF CIPVHGVR SVG TAAVNMCLVATGGA DAYYE MGIHCW DVAGAGIIVTEAGGV LMDVTGGPFDLMSRRVIAANN RILAERIAKEIQVIPLQRDDED
13956	44324	B	14038	91	1959	
13957	44325	A	14039	28	152	LPSPSSKDTDS/AASCCAPRGRA KGSVSNRSLSFPPSSVPLP
13958	44326	A	14040	35	879	GSQCSSPPPASRCGSCSSAPSRH CPCRD FEP AVAGLARTPVLT TK TNPSPPARTGLNAPSMGTSLI/P ALCCFPLYQGSTELQCKAP**LP SPSSKDTDS/AASCCAPYFLVLL KVLSSVDNSSIWCSAGPPAQ S/S SLYTIPMSSMSAKNCSVLRSGT WASFTCS*GSQ RVSLGTPEALG TEDHTSRSLGHS HVCHVDLSPA TASCSFQTASSEVSP PATASCSF QTASSEVSP PATASCSFQTASSE VSPAATASCSFTFSFFFVCALWF GICPSCSA AVLST
13959	44327	A	14041	3	159	EHQCENPQ*NTGTPNPAAHQK AYPP*SSGLHPWDNQRQKPHD YLNRCRKGL
13960	44328	A	14042	54	245	GGGGGEAEDRLREPETEKALSS SL/RRAPDQC/RALIMQLFQAHC FFLST/QATAALQAHYAHIFPSK
13961	44329	A	14043	903	1205	WDVSQNNKSYL*QTHSQYHTE WAKTGSIPFENWHKTGMPSLT TPIQHSVGSSGQGNQTNREPNH E*TPIHNCFKENKIPRNPTYKGC EGPLQGELQTTAQ
13962	44330	B	14044	1	339	
13963	44331	B	14045	1	1547	

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13964	44332	A	14046	807	1440	NTGKPNPAAHRKAYPPRSSRLH P*DLQQTPTDLQLSDLTPGRKT NKQKGIASPSTKRTSTPKPHLQ ANAQRFCHHQACVTRVPKGST KHGKEQLVPATAKTCQIVKNIN AMKKLHQLTEIQITIREYHKHL YANKLKNLEEMDKFLDTYTLF RLKQEEVESLNRPIMGSEIEAIIN SLPTKKSPGPDGFTAKFYERYK EELVSFLLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLKNIDAKILNKILANRIRQPIEK LIHHDQVGFIPEMKGWFKKCKS INVIHHINQTNCKNHMIISIDAE KAFDKTQQPFMLKTLNKLGTIR QKKEIKGIQLGKEEVKLSLFAD DMIVYLENSIVSAQNLLKLISNF SKVSRYPKINLQKSQAFLYTNNR HMESQITSELPFTIDTKRIKYLGI QFTRDVKDLFKENYKLLLNEIK EDTNKWKNIPCSWIEESIS
13965	44333	A	14047	603	764	LPLFLIEYPLFLSLA*LPWPKLPT LC*IGVVREGIPVLCCFSKGMLP VFAHSV
13966	44334	A	14048	1566	1865	MQSIRKTIGIHAKYDKACRNGE DICLRETNAAADTQAKRV*SGP PANSNRPAAECPDC*KEN*QTE RTSTPKPHLYVTIHKDQRGQTLL TNNGTKLDRE
13967	44335	B	14049	1	1932	
13968	44336	A	14050	711	1575	TRKFRRNG*IP*HIHPPKTKSGR SRIFNRPITGSEIEAIINSLPTKKS PGPDGFTAIFYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFIPGMQGWFNIRKSI NVIQHVNRTRDKNHMIISIDAE KAFDKIQPFMLKTLNKLIGIDG MYLKIRAMYDKPTANIILNGQ RLEAFPLKTGTRQGCPLSPLLFN IVLEVLAIRAIGQEKEIKGIQLGK EEVKLSLSADDMIVYLEKPIISA QNLFLKLSNFSKVSDTKSMYKN HKHSYTPITDKQRAKS



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13969	44337	A	14051	1	1579	MQGWFNVKSLNIIHHINRNND KNHIIISIDAEKAFDKIQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRQ GCPLLPLLFNIMLEVLARAIRQE KEMKGIQLGKEEIKFSLFADDII VYLENPIFSAPNFLKLISNLSKFS GYKINVQKSQAFLYIINRQTESQ IMSELRFIATKRIKYLGIHLTR DVKDLFNENYKPLLNEIKEDTN KWKNIPCSWTGSINIVKTAILPK VIYRFNAIPIKLQLTFFTELEKTA LKFMWIIQGYSNQNSMVLTLV IPRKMRSARELQQTSTDQLRD LTVRKKTNKRKATASTSQKGH LHQNPICRSPTSKTKEVGFRRSV ITNFSELKEDVRTYHKEAKNLE NRLDEWLTRINSVEKTLNDLKE LKTMRDLHDACTSFNRRFDQ VEERVTVTEDQINEINDGENGT KLENTPDIIQENFPNLA\SRPTF KFRKYREHYKDTPREEQPQDT* LSDSPRLK*RKKC*RQPERKVE LPTKGSPSD
13970	44338	A	14052	50	1105	TRKSRRNG*IPGHIYPPKTKQE EGESLNRPIITGSEIEAINNLPK KSPGPDGFTAKFYQSTNNKNH MIISIDAEKAFHKIQPFMLKTL NKLIGIDGTYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLPFNIVLEVLARAIRQEKEIN CIQLHNEEVKLSPFADDMIAYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTINRQTESQI MSELPFTIATKRIKYLGIQLTRD VKYLFKENYKPLLNEIKEDTNK WKYIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTLSSQNWKKT TLKFIWNQKRARIAKSILSKKN KAGSIMLPDFKL
13971	44339	A	14053	1	764	MQGWFNVKSLNIIHHINRNND KNHIIISIDAEKAFDKIQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRQ GCPLLPLLFNIMLEVLARAIRQE KEMKGIQLGKEEIKFSLFADDII VYLENPIFSAPNFLKLISNLSKFS GYKI*FPLFLIEYPSFLSLA*LPW PALPTLC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13972	44340	A	14054	1	344	MGINQRRKAENSKNQSSASPTK DCSSSPAKEQSWTENDFEELTE VGFRRQANAERFCHHQVCPKR APEESTKHGKKQ/RSISHCKNM PNCKDHRCYEETASTDSLAETQ QQKREF
13973	44341	A	14055	301	370	DDGVF*IDNHVICKQRQDFLFS
13974	44342	A	14056	1	1418	MVREGFPEEVT FELKNELEISK GQQMGKNIPDTGASSAKALGE RELGTLDKMKNSPSDGSKKDIR THRKEAKNLEKRLDEWLTRINS VEKTLNDLMQLKTMARELHDA CTSFNSQFDQVEERINKIDVRLA RLIKKKREKNQIDA IKNDKGDIS TDPTEIQT TIREYYKHL YANKL ENLEEMDKFLD TYTL PRLNQEE FESLNRPIIGSEIEA VSN SLPTKK SPGPDGFTA EFYQRYKEELVPF LLKLFQSIEKEGILPNAFYEASII LIPKPGRD TT KKENFRPVSLMNI DAKILNKILANRIQQHIKKFIHH DQVSFIPRMQGWFNICKSINIIH HINRTNDKNHMIISIDAEKAFDR IQQPFMLNTLNKLGIDGMYLKII RTIYDKPTANIILNGQKLEAFPL KTGTRQGCPLS/ATPVQHSVGS SDQGSQARERNKGYSIRK*GSQ IVSVCR*HDCIFRKP HRLSPKSP
13975	44343	A	14057	1240	1596	CYSFLFVRCPSDSQVPQLQVC/C EFAGGPLQTVFAWVSPA EVVE MFLQG*RKPFYMSY/TSFEMAL MKVWTMVRTSASPVG DVFGR GWSPFPTSTVGALT VFGVSPGS CRSSPLPSERLWV
13976	44344	A	14058	507	971	PANQKKSRTRRIHSQILPEAQR GAGTIPSETIPINGKRG NPPKLIL *SQHHPDTKA WQRHNRKREFY TDIPDDH*CKNPQ*NTGKPNPA AHQKAYPPRSSWLHLWDARLV QRTQISKRNSSYKQNQRQKPHD YLSRCRKGLQQNSAALHAKNS
13977	44345	A	14059	561	758	
13978	44346	A	14060	2364	2663	DGQLTLVSILNHYS LAQSC EY* DGECFCLHCSASPFL*EGAQST ACTAPPECFASDLGAV*LPQHS WCSTLLLEGAPWP GTLGTAPQF QHRKLGTNLAG

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13979	44347	A	14061	1	64	MPIGKVGEYYIKGTLRATKESE QQSSALELSSDRVYLNEKEPGD QPWNAAFVFRGCGVALALRPP HLGWGEPRWAGFRGAFGFPS TLNPSNWSLTLIIQGCKQEGFYS PSMRPRVVPKRGSAPKVRAEEN AALPSRCPPGPLPVAQP/TGPAD GGSCSEQCPSCGCGCCQLPPPLP WFPR*TPCDKRV
13980	44348	A	14062	1	774	MFVWSNVEGHSVAMFPWYSIP FLNPPCSHTRPSNLPVTQWPTR ENNLPWSQLLLLTSIHQAQFLSA LHKEQGSSEKDGRSPNKWDK DHIRCPMSAVMIFSKRHQAL/V RAHQGHPNQDNWTVSQMLSK WWYTLGPNERQKYHELAFQAT AALQAHYVHIFPSKGRWELLH GSQRLDWGRCQLKLLGQQGQ DVLHTNLGKEENSSCWGYKME CEEFGFPQGGDCGLGGVHAPL LSPEGLDSEQNTLIMGDIFHCA KKLP
13981	44349	B	14063	1	753	
13982	44350	A	14064	2	1457	YPRRRPSRAGVLAGPAVLGPP SSPGRRPRRAAFFAEPFSAARRS PRRAAVLAVPPSSPRRRPRRAA VLAAPRVLAAPPSSPRRRPRVP PSSPRRRPRRAAAGSLPGAELP QSSRLAAHLAAD*PDS*IAAGA VPRGWEGLTIMAEGKEEQVTF YVDGSRQRAYAEKPPVVKTIRS CTV/SGHSRHNSSSGM*/SSPNSP /IPFQFTFQIPSLQLAALWLCL*V TWHFFVR*PVLSSRHCFSPGGLF SLSLQSAGCPAGSLQAEFVALP PGGQSRLHRTRAS*VPGAFQEK CPLERVWPFHPSKQHPRNGLAF PLP*APQRTQPAEDTLPRHP GLILSQGTAG/PGRECQATQLPA QHSHAEVLHFGGAMSGQLSLV GPQDSKRTARLTDSQHLGSPT* QPPGLTEGTSLEQG**S*MGWM VGVIAGAPSGWSGSSGPSEGTP LFSSPA*LPWPELPTLC*IGVVR EGIPVLCQFSKGMLPVFAHSA
13983	44351	B	14065	72	1235	
13984	44352	B	14066	1	2715	

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13985	44353	A	14067	50	1304	TRKFRRNG*IP*HIHPPKTKSGR SRI\FNRPI TGSEIEAIINSLPTKKS PGPDGFTA EFYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFIPGMQGWFNIRKSI NVIQHVNRTRDKNHMIIISIDAE KAFDKIQPFMLKTLNKLIGDG MYLKIIRAMYDKPTANIILNGQ RLEAFPLKTGTRQGCPLSPLLFN IVLEVLARAIGQEKEIKGIQLGK EEVKLSLSADDMIVYLEKPIISA QNLFKLISNFSKLSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ATKRVKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNI PCS WIGRINIVKMAILPKCKTVGLLS NISTHKS AVHALVEAGGIPSLIN LLVCDEPEVHSRCAVILYDIAQ CENKDVIAKY
13986	44354	A	14068	1	1155	MFVWRNVEGHSVA VFPWYSIP FLTPPCSHMRPSKLPVTQWPPT RENNLPSWQLLLMSVHQAQSL SALRKEQDSSSEKDGRSPNKW DKDHIWWPMSA V IIFSKQHQA L/VRAHQGH PNQDNRTISQMLS EQWYTLGPNEMQKYDLAFQN VEARIRY/CHRPKRARFLSHAS PPWRQLPAAGAEASGAWNLP GGG*HDYNRCSVPVFRTEVSTR PRPSEICGLTQE*TLLSAKSQVG NTFGFAGHTISDTTTPCGLCTSK AAIEVPEADTLPHICSWHKGEE CGLRGPEPSSPPRPSLAARVSA GRGALRRRRRPEVPPSRAPRSA ATATPANEQRAVADV GQWAR ARGGRVRAAGRSGLLRVKMM KMKTVM IHFHLMKDEYIFSS
13987	44355	A	14069	1331	1584	SLQRKAARFASSTVPRRPQGIL PIISFSNV PVGSRRLKAPLVFIGP G*ITLNRIPYLPHSAARDPFTWN TFSFLLPCEEVPST
13988	44356	B	14070	1	1248	
13989	44357	B	14071	1	459	

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13990	44358	A	14072	1	2156	MGKKQSRKTGNSKNQSASPPP KERSSSPAMEQSWMENDFDDL REEGFRQSNYSELKEEV RTHGK EVKNLEKKLDEWLTRITNAEKS LKDLMEKKTARELHDECTSLK RVSVTEDQMNMKREEKFREK RIKRNEQSLQEIWVYV KRPNLH LIGVPESDRENGTKLENTLQDII QENFPNLVRQANIQIQEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTHKGKPIR LTADLLAETLQARREWGPFI LKEKNFQPRISYPAKLSFIDRST RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHHTY SKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELRIKKLTRNHS TTWKLNNLLNDYWVHNEMK AEIKMFFETNENKDKTYQNLW DTFKTVCRGKFIALNAHKRKQE RSKIDTLTSQKGLEKQE QTHS KASRRQEITKIRAE LKEIETQKT LQKINESRSWFF EKINKIDRPLA RLIKNKREENQIDA KNDKGDIT TDPTEIQTAISEYYKHLYANKL ENLEEMDKFLDTYTL PRLNQEE VESLNR PITGSEIEAIINSLPTKK SPGPDGFM/RRILPEGQGGAGTI PSETVPINRKRGNPP*/PHFM/SA SIMLIPKGRDTTKKENFRPISL MNIDAKI/RQ*NTGKPNPAAHQ KAYPP*SSGLHPWDARLVQLTQ

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13991	44359	A	14073	3	1794	AMLPMELGCGPLPEPLPVGCSR FSLFK*QTCISTVP/GYMVTAQS MSSTPPPPSPSTLPSSPSPPPPLPQ PLPPPPSPPTLSSLSSPSPRPPL VSPSTLSPQPSSPQPLLPSSSP SLSPPPSPPLPSPSPAIPSLPPP SPQPLPPPPSPPPSLPSLLPPP PLSSSPSPSPSPPPSPPSLPPS PPPSPPPPPQPPSPSSPLSSP LSSSQSLLPSSLPLPSSPSPL LPLSLPLSISPP*LSLLSPLPPSPS LPPSSFQST*TIGQCFSL/VMWH VAPCTYLALAGNTLMAWPLMS ASSKASGGVSMFVWRNVEPCS VAVFSWYSVPFLTPPCSRVRPS NLPVTQWPPTRAKNLPSRQLL TSVHQAQSLSALCKEQDSSSEK DGRSPNKWDKDIWWPMSGG HDLQQAAPGPGRAHQGHYPYQD NWTISQILSERWYTLGPNEMQK YHDLAFQHMAGEDIASDEEHM VIHEEEGVMSLLMTALAPLTL ISSSRIFGKVYGPTPSSSYTYS ASSSTLAPTSFLLGPGAFKAQES GEEAEDGLRELETEKALSSSL/R RALDQ/*LALIMQLFQAHCFFLS T
13992	44360	A	14074	1	2496	MLLSIDAEKAFDKIQPFMLKT LNKLGHYEQHHLHTTNDVDE EDLSDAASKGDDFALSEQSQD AHFLQPEAYGLGEGAETATGT AHQGNHVRVEECGRSLCGCVP LVLHPLPDSLQPHEAQQPASH SVACNQRKQPAKLPAVAHERP PGGTGSVDPRPPGATCPESPG PATPHTLGVVEPGKSSPTMEE EPWAPQGSPCWTAQSLSALRK EQDSSSEKDGRSPNKWDKDI WWPMS\ALMIFSKRHQAL/V
13993	44361	A	14075	4317	5099	KMFVFLCISAQLSLQCFRGSFHF IKIYDFSQQLFFLFLELPYLLLN HFKMLELVLQQGHPNQDNWT VSQMLSKWWYTLGPNEROKY HELAFQVKVAH\CNKD*KKFSS EAKPTSQGLAG\GNKGSWEWS MSETGTATAPGVSSSELLSVAQ TLQSSDTK\SSFCGAEWGHP*GI GCDDVIADDFSTTDTLKFKE WVTD\ESGDNSSGEEPEGNGFG GKVFAPVIPSSFT/HCRPLLDPE/ PPGSPDPPAAGKVYGPTLSSSY

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13994	44362	A	14076	1	637	MSRVGSCRWVCGLADFKNGAT DLCDKSLHNRELSAERPLNEQI AEAEDKIKKTYPPENKPGQSN YSFVDNLNLLKAITEKEKIEKER QSIRSSPLDNKLN\EKD\VDNFQ EFGKLIDGY\DSTKEWDWVHKF QDIPNVLVGTAFNVDDGNGGF VVHWNKNEFHFTSSTEVMFH QLRKLSDKQVDHENDDADRED EEHSQEDRERGLHMKLDH
13995	44363	A	14077	448	464	KKRA*GSVSQRFAET*LAD*VI NTGSQEAKRREQR
13996	44364	A	14078	179	382	NTPNQRSVASNRFVKCTHQHS VKCTQSALCKMHQSAGFLKVD NHRED*KKGHSDRAKTEHGRG QIRE
13997	44365	A	14079	697	1654	PKPSVGRMGFLGTGTWILVLV LPIQAFKPG\GSQDKSLH**ED LSAERPFELNRLLEAEGRTFRK KTYPPENKPG\QSNYSF\DNL NLL\RAITEKEKIEKERQSIRSSP LDNKLNVEDVDSTKNRKLIDD YDSTKSGLDHKFQENETADNSF SQEEEPVVAGEDLPPSPQESD VQPVQPEEVSARDFLQRLDLQI KLSTQAAKKLKEESSSLERMRE ETSLSPTVPTKRWDTRILLIGAF YRVLIGAFYRVLMGAFYKPIAS YRALIGVFYRALMGAFYNPLV RQKSSPRPHSTQEVQLASPLTN TQITYYVIFTV
13998	44366	A	14080	72	1117	ILENHLSDRVAEGGPLQGLRLG VQGEAVPPGLVHQRGGLGPLD GELIGSVGQQVSDVEGAGSHR G*RHTGRTPAVSAGPAA*SATH TAPMWLAGWYEPAPQPGPVLV SPPTPFGQTRQASWCSA*ARCA GSWWH*HQTPGGA*RVAAPAP SWSRSCP*RPTRSPAAAPPAPSR PGRAVGLATGAGHPAQHGHGR AVPTGPRAAGAGSWSELCPSS CAGTSRGR*AGTRR*AAPAGSG RPGPGAWAGPRCSRSTYAAAA CGRGGA*AGADSGPRSGTHAG HCGARCRSSTPLVPAAAGHLPP PGPGRTGDCPASSCPGPGLPHG CSLSGSWGEGWVSAARQAGLP WAVA
13999	44367	A	14081	2	269	
14000	44368	A	14082	1	591	
14001	44369	A	14083	2	477	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14002	44370	B	14084	237	419	
14003	44371	A	14085	2	1220	LPPGFVMAAAAARWNHVWVG TETGILKGVNLQRKQANFTA GGQPRREEAVSALCWGTGGET QMLVGCADRTVKHFSTEDGIF QGSETLPG\GEGMFRGLAQTDG TLITCVDSGILRVWHDKDKDTS F*PTPGTESGPWGCVC AKTQA HPHVVCHRLGKRMLLKIWDLQ GS\GNLCFKAKNVRNDWDLR VPIWDQDIQFLPGS QKLVTCTG YHQVRVYDPA SPQRRPVLETT YEEYPLTAMTLTPGGNSVIVGN THGQLAEIDLRQGRLLGCLKGL AGSVRGVAV\HPSKPLT*PPVRL DRVLRHRIQNPRGLEHKVYLK VSIE/RALLSGRDNLGG*APEP SKTQTRCP*EDTEDR*TLGDPW RQLPSGKLFVWSSPKELSKRD GERRSGLGPPAPDAPVPTL
14004	44372	B	14086	96	592	
14005	44373	A	14087	102	612	HCAGSPHSPRSLSGTPLPGLPL WRHLRSPSAHRCTVGAPFWAG QDRSQLP*LAGRCGGRGPSGNP GCA\PACGPAGVPGGRLGGPR TRSSQPALPAPGNEGLSTRASG CRGRTGSPSSASPPLGLSCLPAG QGWGP/GSPPCVSLPPTPWAPV RPEPPG*AAPPAPRRPVP
14006	44374	C	14088	1	636	
14007	44375	B	14089	31	612	
14008	44376	A	14090	234	504	SFYHLGAGE*PGKSRVPIQFQS PWGPYCQGRARGGEVCHLQAV PPRGAGAARTLSGHPLGSPEQL PQGPAAELPGGVVPRSTPPCP
14009	44377	B	14091	1	924	
14010	44378	A	14092	11	354	RLSTSPPDSGAQLASPSGSHTRA AGGAACQSRAVRS/PFPSPWVV DGTGCGGAGGGARWGGSGCT GAHGVGGR\PGMAG*\GPEPCP EGRQLRPLAPVGCQ*REP\G*K NSMGETTT
14011	44379	A	14093	147	513	GSASGVVRLSRWARGLAGFRS EAADLRGECYSS*GSASGVVRL SRWARGLAGFRSEAADLRGEC YSS*KQRGPKELRSPAGFT*WIP /LPGLQVELPASPAPCAPTPQPL SG*WD\GRRGAGGGARRGGSG RTGALGVG\GGSGMAGCRSRA LPPREGS



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14012	44380	A	14094	418	1026	WNPHQGCRWSCLPVPRHALAF LSPWVIDGTGRHGAGGGALWG GSGRTGAHGVGGIS*GMAGCR SRALPHGKAAKAR*EIERSASG/ TGTAGGPSTPSAATGPGAKSLI ARGQQGWPAAPSAGPAKPTPT GNSSWPASAAGSSGSCSRLS/SP HLPAS*GSLQWPAPQKGAPTV QQQAEGLPPIRLPEEWISLPFLG HQGEHSGMA
14013	44381	A	14095	897	2111	PPLLQSSPNFFLICYPWHNSHE NTHRTGRRGAGGGARRGGSGR TGAHGVGGRLRHGGLQVPSPA PWECS*GPARNRAQRRYHCSCP GLQSGLPHYSGYHT*PDEKEKN GREGQKLER
14014	44382	A	14096	1304	1922	KLNIGVIYSSEIPDSGAQLASPS GSGTRAAGGAVCQSCALRSHSS ALGWSMG/PGRRGAGGGARW GGLGRTGAHGVGGRLRHGGLQ VPSPAPREGS*GSVRNPAQRRW AGTAGGPSTPSAATGPGAKSLI TRGQQGWPAAPSEGPAPKPTPTR NSSWPASAARSPGSRSR/RLPPH LPAS*GSLQWPAPHYFEFFLPI GQNAQTEVSY
14015	44383	A	14097	318	533	MVCFDGDADCPWVVDGTGRRG AGGGAHRRGSGRTGAREAGGR LRHGGLQVPSPARREGS*GPAS PAGCLAHL
14016	44384	A	14098	346	957	ARYTLHIPTRLGSPAGFTQWIPH RGCWWSCLPVPRRALAFLSPW VVCSPVDGTGRRGAGGGARR GSGRTGAHGVGGRLPGMAGC RSRALPRGKAAKARREIERSAG G/TGTAAGPSTPSAAAGPGAKS PFARG/LAGPAAPSARPAKPTST RNSSWPASAARSPGSRSWKMS LYMKKSASGQSQAQWIAKMW KSPRFKPLWLTS
14017	44385	A	14099	124	663	SCLPVLRRALTFLSPWVNGTG RRGVGGGARRGGSGRTGAHGV GGR\PGMAGCRSRALPRGKAA KARREIHSAGG/TGTAGGPGT PSAATGPGAKSPIAPGQQGWLA ALGINGAGERLFMKVAFSLKTC SLSCSYLRLLSRGGSVHVLRG NLTVCCKPQALLRVVFHHQRQ ADCGALPVP
14018	44386	C	14100	1	672	

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14019	44387	A	14101	3	1759	RPLRGWRRTRDARAPRRRCRG SHGARRCLRKTAATSRCGGAP GP\RSRPPSTGQAAEAGDW/PAG CNP*GGLRAADGPGSRPPRGS GLLCGQGGQGGSSPWVHGTG RCGAGGGAPWGGSGRTGAHG VGGRLRHGGLQVPSPAPQEGS* GSARNRAQPRWAGTAGGPSTP SAATGPGRDGE\ETGAHVSA LKGTPTGTEWPAHGLVPYSIGDQ TCLIFKVTFAVVLKCGPQTTS STSISCPGSAN/SPPSPAG*/GSSG CGSSSLCSAHSVQEDSQPQ*KR TGLQSYTYGRSGSSSNEPRYHSD LPTSRSKLRNEDTFFGRRKKLS EVQRTGQDPA*SHHTSSYTLPG L*TAEGKDRVENAA*KGSPNFQ RSGTFNPKGGARKTRQAWHPR APNCQAGTPPREGSSGPRTSL AAFRIPQEVVNFLISGPITRAQR HGEPEPRGQTGSPPLGKTGSE GTDKSTGADKKSTGDRQEV EPTESPQGLDRKPTGMDRRSTG NRQKVRRQIGSPLGLNRKPNGT DKKSTRNRQEVRRRQSAGARQ ERAGSSTFLRLSALCGLLDVN REQVAKQKWDLYSSRFTSGNR
14020	44388	A	14102	1879	2607	GKPSLSLHPGHKCGISRCNGNV SSRLRSPAGFTQWIPHRGCRWS CLPAPRCALALLSPWVVDGTG RHGAGGGARRGGSGRTGAHG VGGRLRHGGLQVPSPAPREGS* GPARNRAQRRWAGTAGGLSTP SAATGPGAKSPIARGQQGWPA APS\GGPPSPSPPGTPAGPQAPH AAPVPAR\PLPPHLPAS*GSGLQ PWPAQKGAPTQVQGGG*RAPQM PPKWEPRQGRRIVAFTIEVGVL
14021	44389	A	14103	2	272	GHWGMVNSPCRASATVSRGSP LPGVLPSTPPSATSTCRMCHPR RCPLPFRRLSPPSLTPP/PGKPPL LPRPHSMPGLGLPLGGLPVFHP

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14022	44390	A	14104	101	1815	QSARQLRPCPGAPSLAGVENRR KKTNTLTSLAAPDTQSTCGQSC GCLHSMGSSCMQHSYYTGFLR SLWPCRCHRSASFSGQRRSEKD SKSVRERSGRSQNVPARPALTS PLTQSPGPLAPGAGSWSRSQLG TGTGVLWWQRESATGDFRTES ARSSDPSRRDWPAGAKRKREEG AATVLWACATASTAIICQDNAI SPLKSGNSPSNHLWRPQGQLPP VLGLAQPKRWRPNRLTTSPSPS RMMARPVDPQRSPDPTFRSSTR HSGKLEPMEATAHLLRKQCPSR LNSPAWEASGLHWSSLDSPVG\ PCRP*GLRPSTHGARTFSGARP GLGGYSPPPEEAMPFEFDQPAQ RGCSQLLLQVPDLAPGGPGAA GVPGAPPEEPQALRPAGSRG GYSPPPEETMPFELDGEGFGDD SPPPGLSRVIAQVDGSSQFAAV AASSHQCLSHHIPMSPSVGRNG LLTKPPSTSRRGKLTKRDDMY FVPFRSLNDMMHMLPFIEDSR WTHNLDINREQKTNPLAGPKG RPISRTQAAASTSNSKTESQIQE KTEEAPFSLRYININNRSM DPLN
14023	44391	A	14105	39	877	AGPGPPRPLPPRSSEGPPGASISL CSEVPGPSCQGRFRGGRDAMS MPWREEERSLLAGE*PS*GG*S GRGVSRKCS*PGPRGVPRPRPL RSRPRAASSE\DQNSPLDQSLHR TRKTIPSSGGSTAIMPRRGSSSE TFFSAPSKTWVLGIPGETFISGP AAFPAPGGPRAAPRPSPLNSL *SGGNGGPGPPRLHFSSCGKGP PRPSNSRN\GGQSACQGGSHLV C*SHRGS LGEGHAYQGDPCSPG HPAKAPSRAHAQARRSAHAAS LTSGPCDASCQAW
14024	44392	A	14106	358	546	CFPSRIRLALSRAKWPAPKRSPS EPEMS/PPVWSPHPDPNNTAPPK EQPPSSPGRVGRHGNWSV
14025	44393	A	14107	22	549	DHCLCSVVRNKRDSVYPLPIPP CCKTSTISPP/LVDAVRP*DISVS KRVTSAPLEPQPHCLPTINAG R/TLARPQGAPTPNKEEGQAPG RATASGQAAPATTVLGDTTK/G PQGRHRGTSASAAGPAPFAVA DQLPPEDRAASAEGRK*AAAFP FCHRLVQDGGPPPPAAGVPGA GES

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14026	44394	A	14108	146	2616	LAAVGMASHCFRQRRQSQSPA\ GLRGAGSAYSPA\EGARSSHGQ/ PPWRGRRRGPGDPVRGAARCR RPRAAAQPARPAARPPARPRPA P*AACCE/VPSAANSVAPSAAM *SSAGRDGASSQRSRRPHAAPP RSSALPANGK/PPSPVTRAARTC GARSSNTGA*SAARPKHSAASS RHPPPA/MPLPARHA/PGGTSG RPLPTPQGSAPTSSASPRGPATP PPAGPRAPPPSPRAAAPRPPGR QLSPAPGTPAAGGGGPPFPALR *SGSVFGRQLVGDGERGRACG ARGSAVPALRTFVVSPTVVA GAACPLAVALPAPDPLPCSE*A PLRSG*VPQPASLFCQFRPQA WQHP*LLRAPCPRLGAAVPCV WCHSRALDSATPRWM*G*RLP AVWL\PAFPSPPFNQAFVPPCQQ NCSLQNRQTLASAKIGTEEWD IAIKIPENVEVTLELGNEQRLEE FGGLRRRQEDEGKFGTPTDWL NGCDQNADSNMDSEGQGEDG GCSFGGAGLRGSGWGDQTRET FLALKANLRWPFSSAQSQTSQ EGAAGARSLKGGKKNPLKLP KKQAKKMNAFKQKQEKERK KHKELKAKASWKGLRPQVEFK NLAERRGEAAVPGCPVVAGHS WRLLSLARGCAKRARQLLPSE KLLAALREGSTRGGGAASQPQ RKLRVCMRVLDSSEDFHMDG
14027	44395	A	14109	1	885	MIISIDTEKALDKILHPFILKTLN KLGIDGTYLKIIRALYDKPTANI IMNEQKLEAFPLKSNTKQGCPF LPLLFNIVLEVLAIRAIKQEKEIK SIQIGREEVKLSLFADDMIVYLE NPIISAPNLLKLISNFSKVSGYKI NVQKSQAFLYTSNRQTEIQMM SELPFTIATKGIKYLG\HPLTRD VKDLFKENSKPLL/KELEKTTLN FIWNQKRAHIAKTMLSKKNKA GGVMLPDFKLYYKAAVTKTA WLGDQVFLIPRGHISDYHMG KNLGQYPAFQDRGPCGFPQCIV PLVYRD

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14028	44396	A	14110	453	891	LIHLSTDALRVSGWGTVRSFSS HEAIFQTIAWGETLDNTLLSRA EVPAAFHGALCPWFRETREWQ* LLQSILLVNIWLTRHVLHSPRSL KP*FYTT*VFVCSKLGQSGWGK VAGAKLQMNNISAKQLFKVQV LFKIESLMSSLST
14029	44397	A	14111	452	2922	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDIYRTLHPKSTEYTFFSAPHCI/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQ\NRS ATWKLNS/YLNDYWVHNEMK AEIKMFFETNENKDTTYQNLW DTFKAVCRGKFIALNAHKRKQ ERSKIDTLMSQLKELEKQEQT SKVSRPITG\SEIEAINSFTNPK RVPGPDPGFDEPNFYQRYKQEL VPFLLKLFQSIEKDILPN*FYE ASIIIPKPGRGTTKK/EENFRPIS LMNIDAKILNKILANRIQQHIKK LLHHDQVGFIPGMQGWFNICKS INVIQHINRTSDKNHTIISIDAEK AFNKIQQLFMLKTLNKLGTNG MYLKIVRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLARAIRQEKEIQGIQLG KEEVKLSLFADDMIVYLENPV SAQNLLKLISNFSKVSQYKINLQ KSQAFLYTNNRQTESQIMSELP FTTASKRIKYLGIQLTRDVKDLF KENYKPLLNEIKEDTNKWRNIP CSWVGRINIVKMAILPKVTYRF NAIPIKLPMTFFTELEKTILKFR WNQKRAHIAKTILSQKNKAGGI RLPDFKLFYKATVTKTARYWY ENRDIDQWNRTEPLEIMPHIYN HLIFDKPDKNKQWGKDSL FNK WCWENWLAICRKLKLDPFLTS
14030	44398	A	14112	3	3349	

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14031	44399	A	14113	294	1107	RRHRLNENYIPRTAQSPHPRKAL ARSESKRDGGFKNNWSFDHEE ESEGDTDKPEGPLDAPPRP/ESG PRAPGKGL*RRSRSPGPSEGRSA ARLTAEPEARNPAASTLLRRGP SSRRARRRCGPWIKKEAAWEE EDGGRQERRLGQDLRTRTLNK SKGGIDSRILSLGQHSHPHAKL WLDQSLREMEVLKIIGALIMKK KVKEIQIKSRARSTPLHDQIGTT SPRERTIASKRHPYYITPKGIRY EQDTLSRTPITTIRSRQRPLGPLT ASPPPSFPTLAPPTQAIKPSLHLR EGKPTPTPGERSTRPHHPEPPRK EYALSSLYPPTYLLAPTSTDLG NAHPTQEPQFNVDATHPRQNR FIPVAGNSPKRSSQFPVIFAPKK NTTPPYLDFAAILGLHRRPPRSR FRTSYPPKEFRSSPPERTAPRN
14032	44400	A	14114	2	297	VQKSVLCSFQAGTMEGVEEKK VPAVPETLKKKRRNFADAIQFL QTVFLAF*YTLLKGRQVYWL V EE*HQFYKISYRKKMVQRIRQH PQSCTVQKSWWP
14033	44401	A	14115	3	754	GTMEGVEEKKKEVPVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRTEIRMARMARKAGNF YVPAEPKLAFVIRIRGINGVSPK VRKVLQLLRLRQIFN\GTFVKL NKASINMLRIVEPYIA*EYPNLK SVNELIYKHGYGKINKK*VALT DNTLIARPLGKYGITCMEDL/IH EIYTVGKCFKEANNFLWPFKLS SALSGMK/KKTTTFVEGGDGG NRVDQINTLNRRMN
14034	44402	A	14116	1	388	

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14035	44403	A	14117	1	1145	MTRNYEWLLEAESSQPPIAFQK MEPQPYNSKELNSANNQCLLE KPKLRQRLKDKEYDQGHTAVQ CQSWVYVLTTPDSFCQQLILLPS TENFHECSRSDTAGHLRTGHVA SNWLSEHSPQTMPAAMQWDK KMQNTSSWFPQKAPEKVKPMS KLWQTPSQNDTLYKAVKALT SSPERNSINTNKKDVHTETSSK GHQHQRPKVDKSMKMRKNQH KKAENSQONASSPPRNHNSSP ARERNWSENEFDELTEVVFRR WVITNSSELKEHVLTQCKEAKN LEKRLEELLTRITGLEINQAEERI SETEDQLNEIKHEDKIREKRMK RNEQILQEIWAYVK\RPKLRLIG VPENDRENGNKLENTLQDTIQE NFPELAR*ANIQIQ
14036	44404	C	14118	291	551	
14037	44405	B	14119	1	1308	
14038	44406	A	14120	82	367	ITLSSPPHSFIGHKTPASGPPQKI PPQPSQ/CKQWGDPTPVEAC/CV SCPTQGFIPTRRGGPPCKHESLV VPLVGTPTRRNQPGGHIQHSQR WAPVLT
14039	44407	A	14121	999	2661	VHLTGC GGPGQPVPPEAPPRGL RSMRC/GP*GFSPGAEA*TEP/C HYGGRGFPCGPFSLGCLATNSP WLPGRPPCSPWAGP\CGLCPLP AAAAERQPALSVPGASPSRLL PLVVLCHGSHLNGGRVLLRPG GSPCGHCHNCAGARRGLGHVL QGGAAQARQREQLQR
14040	44408	B	14122	164	1042	
14041	44409	B	14123	320	566	
14042	44410	B	14124	1539	1674	
14043	44411	A	14125	185	780	QKAKKGKLRKRSKQNSFPGLKK TVPSQLVQYCPFS*ISWKPMVY QKVPA*PRPPRTPDHHPDGP PHPRQHHPSPDAEP/SPTTPT RRRPPTQPPDHPKRPPIHSPH PPQQPPTPTATPTEQQRHTAPP TPRPPTTHPPSTPKHPA\PHAPP PTKNTKPPTPQRTTQDKGRQKK PRRQPHHSEPNKKSPPKAHI
14044	44412	C	14126	1	1128	
14045	44413	A	14127	319	536	
14046	44414	C	14128	231	425	
14047	44415	B	14129	1	1431	
14048	44416	A	14130	75	393	
14049	44417	C	14131	174	371	

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14050	44418	A	14132	79	164	
14051	44419	A	14133	343	775	
14052	44420	A	14134	554	724	SEGPSKEPTHRRMKFSHHDDLI FLDLSN*QPPNSPEPHPPQSP*KP WPQNPSSRQM
14053	44421	A	14135	20	242	VSFLSMGSGHCIRSTRGSKMVS WSVIAKIQEI*CEEDERKMARES LAESMSTYVMMNHTYDS*GK THILIMKK
14054	44422	A	14136	229	366	
14055	44423	A	14137	131	505	
14056	44424	A	14138	1	1317	AGCSCGSRAMAEQGRERDSV PKPSVLFLHPDLGVGGAERLVL DAALALQARGCSVKIWTAHYD PGHCFAESRELPVRCAGDWLPR GLGWGGRGAAVCAYVRMVFL ALYVFLADEEFDVVVCDQVS ACIPVFLARRRKILFYCHFA DLLLLTKRDSFLKRLYRAPIDWI EYTTGMADCILVNSQFTA AVF KETFKSLSHKDPDVLYP\SLNV TSFDFSCS*KAGMT*SPRGKNS WLLSINRYEREGKIWTGTGK ALVQLRGRLTSQDWERVHLIV AGGYDERVLENVEHYQELKK MVQQSDLGQYVTFRLRSFSDKQ KISLL/RQLARVCFYTPRQ*GTL GIVPLGRPCYMAVPQFICCLIRV GPFGSSI*PQCSQGFCVEPDVH FSEAIEKFIREPSLKATMGLGWE EPE*REKFSPGSILQEQLYRYVY
14057	44425	A	14139	1	648	MESKEEQGGVADHQKATRGIP TPQPREVVSERATQRGNRAFST KLCNPKTNRKQQQQYQQQK GRKTLPLKGQHPQRSKLDKLTE MRKHQQKNTKNPKGQSPCSP NDCNVSPARVHNWGTDEMEEL TEVGFKKWVRKNCAELKEHVL TQCKEAKNLDKRLEELLTRKTS LERNINDLMELKT/RA*ELCKA YTSINS*IDQAEERISEFEDHLAE



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14058	44426	A	14140	1	1365	MPVKGGTKCIKYLFLGFNFIFW VSEDCRALLSGPTCSRAPDTG RGRECRQLALPAPGRHRAGRES ALRLPAGSKAGSRAGRDGRDG RIRVGVSGLTFLGTTGLFNQSL AETGFTPYTQKSNDFLVKSLKI WHTYFKNFHQEARLYIRTSPGS NWNWFCTLGIESPEQPGVYEG QRPRVVTKSFASLTALKRVGTVL LLAARINADVLYVLQLAGIAVL AIGLWLRFDSTQKSIFEQETNN NNSSFYTGVIILIGAGALMMLV GFLGCCGAVQESQCMLGLFFG FLLVIFAIEIAAAIWGYSHKDEV IKEVQEFYKDTYNKLTKDEPQ RETLKAIHYAVCRLGKDTLLRF LRIVSAHRLNCCGLAGGVEQFI SDICPKKDVLETFTVKSCPDAIK EVFDNKFHIGAVGIGIAVVMPS FRSNHPDPHVSSYLLNFGMIFS MILCCAIRRNREMV
14059	44427	B	14141	98	1064	
14060	44428	A	14142	560	964	KRLPRILGIRGKPCCPDTSRAGR RVRGAAAPCREAARGRGQRR FLPPTWRCETGAATMFPSALT PTPFSVKDILNITVRPRS/LGQAA LTKRLSASL\SPQSCARCRRRWS CVILSAVRGN*YAGSRAHRDCT Q
14061	44429	C	14143	189	452	
14062	44430	A	14144	1	647	

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14063	44431	A	14145	890	2905	LRLSLKFPMSQWTPEYNELYTL KVDMSKSEIPSDAPKTQESLKI LLHPEPIGAAGSFPAGVEMINSK VGNEFSHLCDDSQKQEKEMNG NQQEQEKSLLVVRKKRKSQQAG PSYVQNCVKENQGILGLRQHL GTPSDEDNDSSFSDDLSSPSSSL HFGDSDTVTSDDEDKEVSVRHSQ TILNAKSRSHSARSHKWPRTE ESVSGLLMKRPCLHGSSLRLRP CRKRFVKNSSQRTQKQKERIL MQRKKREVLARRKYALLPSSSS SSENDLSSESSSSSSTEGEEDLF VSASENHQNNPAVPSVTYGGP WSKNIKEKTLEINSSQALTAYE CLHSAHVINLISPFYHHPSSQE RSYLSTLSTLSNKKTGSVWFTR SPKVTQFFPGGAITGTLRQPER EILRPLALPGKNTPPYFCSPSM GCTHCPTSPNEMNQGISDAA APVRDIYIKPPSPWDRAFGGRG GCGHSFRLKSPYLRALKSAAD FPAQHSSSDKGAASSGSLTP VYPVWVTPPSRGRQTPHRGEL WLASDGCPSGRKLPEEGTGSNL CCSAASAGDTQANRDHNSSPA REQTWTEKFDKLTEAGLRRW VINSELKEPVLQCKEAKNLE KRLDESPTRITSSEKNINDLMEL KNTAQELHEEHTSINSQ/DQAE*
14064	44432	A	14146	1	737	LNRGEQRAVRYYSMMKLNM EEEDYMSGFLH*CPRRYQTRIA NAKANPRSPSKR\EKQQEANLK NRQKSLKEEQERRDIGLKNAL GCENKGFALLQKMGYKSGQAL GKSGKSGIGHEASLKRKAEEKL ESYRKKIHMKNQAEEKAAEQF RMRLKNKQDEMKLEGDLRRSQ RACQQLDVQKNIQVPREAWY WLRLEEETEEDEEEKEQDEDEY KSEDLSEIKKTYLQIVQDQLLQI MTKIIPNKVET
14065	44433	A	14147	1	1860	
14066	44434	A	14148	1	1203	
14067	44435	B	14149	1	1119	
14068	44436	A	14150	1	1407	

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14069	44437	A	14151	1	1731	ERSSSPATEQSWMENDFDELRE EGFRRSNFSELKEKVRTHHKQD KNLEKRSWFFKEKINKIDRPLAR LIKKKREKSQINAIKNDKGDITA DPTEIQTITEYYKHLKYANKLE NLEAMDKFLDTYTLPRINQEEV ESLNR/LNNRL*N*GNN**LTNQ K/NVQDQMD*QLNSTRGTRRS WY/RFLCLKLFQSIEKERILPNSFY EGIILLIPKPRDNTKKDNFKPIS LMNMDAKILNKILANRIQQHIK KLIHHDQVGFIQGMQGWFNICK SINVIQHINRTKDKNHMIISTDA GKAFDKIQQPFMLKTLNKLKID GMNLKIIRAIYDKPTANIILNRQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLARAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPV SAQNLLKLISNFSKVSQYKISVQ KSQAFLYTNNRQTESQIMSEIPF PIASKRIKYLGIQLTRDVKDLFK ENCKPLLKEIKENTNKWKNIPC SWIERINIVKMAILPKVIYSFNAI PIKHPMTFFTELEKTTLKFIWNQ KRARITKSILRQKNKAGGITLPE FKLYYKTTVTKIAWYG
14070	44438	B	14152	1	906	
14071	44439	A	14153	3	553	EHSSSPATEQSWMENDFDELRE EGFRRSNYSELKEEVRTTHGKEV KNLEKKLDEWLTRITNAEKSLK DLMELKTTAREICDECTSLSSR CDQLPRPDGFTAIFYERYKEEM VPFLLKLFQSIEKE/VNPP*LT GQHHPDTKAWQRHNKKREF*T NIPDEH*CKNPQ*NTGKPNPAA HQKAYPP
14072	44440	A	14154	1	909	MKAIEIKMFFETNENKDTTYQN LWDTFKA VCRGKFIAVNVHKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEKET QNTLQKINASRSWFFERTNKID RPLARLIKKKREKNQIDAIAKND KGDITDPTEIQTITREYYKHLKY ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGAEIEAIIINSL PTKKSPGPDGFTAIFYERYKEE LECSSSPAMEQSWTENDFDDL EEGFRRSNFSELKEEVQTHRKE AKNLEKRLEKWLTRITNVEKS LNYLRELKTMARELC
14073	44441	A	14155	1	969	

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14074	44442	A	14156	377	687	LLEGKLTNRKDIHTKTPSV/SP SSKTKEHSSSPAMEQSWMEND FHELREEGFRRSNFSKLKEEVR THRKEVENLEKRLDEWLTRITK VEKALNDLMELKTMARE
14075	44443	A	14157	1	711	
14076	44444	A	14158	1	831	
14077	44445	A	14159	1	744	
14078	44446	B	14160	1	1479	
14079	44447	A	14161	1	810	
14080	44448	A	14162	3	651	
14081	44449	A	14163	2	1067	
14082	44450	A	14164	2	2063	
14083	44451	A	14165	1328	1639	PTNAHETSGRYIAGSSEKRTSA RTCGGTSAARPAGTSMQTRC RQPPSS*HAVPRVAQSSDGL KATHPQAYQPCGHTPTRLPQES NCIEHERGLGKKKKKKK
14084	44452	A	14166	1	620	MTLGYGORGANKDLRTGFDPD LCTMDNFAEGDFTVADYALLE DCPHVDDCVFAAEFMSNDYVR VTQLYCDGVNDSFLIGLLRIG CKIENERSSSPAMEQSWTENDF DELREEGFRRSNYSELKEEVRIT NGKEVRNFEKKLDEWITRITNA EKSLKDLMEKTTARELCDKC TNLSNRCDQLEERVSAMEDEM NEMKHEDKFREKE
14085	44453	A	14167	1	514	MGKKQNRKTENSKNQRTSSSP KERSSSPAAEQSWMENDFDEL REEGFRRSNFSELKEEVRTHGK EVKNLEKRLDKWLTRITNTQKS LKDLMEKTTARELHDECTSLT NQFDQLEERINNIEDH*QD**R RKERRIK*MQ*KMIKGISPLIPQ KYKLPSSENTINTSMQIN
14086	44454	A	14168	1	366	MDTFLQAERKDYMEAYELIEQ EEQGEREPVAVNNILSTEALMA NAKSTLMFYAVGFLWQPGGGR GHKAASNPGVTRDVVGSLSSTL FLRGERSSSPAMEQSWTDNDFD ELAREEGFR*SNFS
14087	44455	A	14169	1	1026	
14088	44456	A	14170	1	3906	

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14089	44457	A	14171	1643	2721	IKPTKMGKKQSRKTGNSEKQST SPPPKERSSSPAMEQSWMENDF DEL TGAGFRRLVITDFSELKED VQTHHKEAKNLEKRLDKCRTN G*LEWMNG/ITRITNAEKS LKDL MELKTKARELHDECTSLRSRFD QLEERVSVMEDQKK\MNEMKR EGKFREKRVKRNEQSLQEIWD YVKRPNLRLIGVPESDGENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGQ VTLKGKHIRLTVDLSAETLQAR REWGPINFILKEKNFQPRISYPG KLSFISEGEIKYFTDKQMLRDFV TTRPALKELLKEVLNMERNNR YQPLQNHAKM
14090	44458	A	14172	351	898	SGVTAPWRPNGTLLITAATASH PVLAI PAHLCSRPCSFLT TVTC SGPQHHAAARGRVPFHC/SECGK SFRYRSDLRRHF/ARHTALKPH ACPRCG/KGFKHSFNLANHLRS HTG/ERP YRCSACPKGFRDST/G LLHHQVK TITT*PD/CGGCLVSN IVGSYSRPPWPCTRGP RRPLGSP SPAPGSVCLC
14091	44459	A	14173	1	551	
14092	44460	A	14174	3031	3207	TIHGCWWDPLSSIF*PFWGRGFI SHKICQAQISFRVISGT VLSLDK LLIMFHKAIFASP
14093	44461	A	14175	3555	3957	ENGQKTWTGTSQRRYTGD RM AQIQNPDTKCW*ECKATGTRI H CWWECKMVQPLWKS\WQFLT KLSILLPYNLA IILLGNYPNALK MYAHTKGFTCMFIAASFIIAKT WKQPRRPSVGEW/INNL*LVQT MEYYSAL
14094	44462	A	14176	3	883	CQPYPRPRPTGTHGSCQPPSQ GSAEP*G*CLPTLLRMALKAQP TKVNPRTLLDSDPDVC/S*AAHS RVLITSPSRAPWRLPSP*RRCPA GTCMPSTAT SAR*CSQRP GSSW *T*TGSSLGSQACGPSSSTAPPSS SWSACTCGCAAAAARCSCAASS TRSGPTCGSSPPASSCASSTPAP GTTSPSTLT SWASSPWSTPCPGS AGPSSWSSSSSATPSASASTRTL SPGSPAAP*PWPTALSRLTEQEA VWGA WGISHGNSWDKETKLV RLPHPCSKSPCFRPSLQPYRAHR AP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14095	44463	A	14177	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSL\GILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14096	44464	A	14178	2	1044	AKTSSQMPSPQEGMCGKACTP ALSQADSLCPLRLASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALSSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNGVGLA GMGGIQNEKETMQSLRDRLAS YLDRVRGLETENWKLESKIQEH LNVTRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAEMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEGKQV

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14097	44465	A	14179	1	2040	MPVPQLPPPVSRLAATAAASVT EPGPNPEAVRSASAEPEVKEGF PSQNHSHVGHSNLIPSGGSVAPSS GRSHYGYASEDGTCSKLRVRPR LAAAPAAPFAFVADLASCCQG LSFFEGILLVRGPYRRLRATVV RDLVAVRMAEEQEFTQLCKLP AQPSHPHCVNNTYRSAQHSQA LLRGLLALRDSGILFDVVLVVE GRHIEAHRILLAASCDYFSMSFT TRSTFSTNYWSLGSVLATTYGA RLVSSTARVYAGAGGSGSRJSV SRSTSFQGGLESGLAAGMAG GLAGMGGIQNEKETMQSLNDR LASYLDRVRSLETENRRLESKIR EHLEKKGPQVRDWSHYFKIIE LRAQIFANTVDNARIVLQIDNA RLAADDFRVKYETELAMRQSV ENDIHGLRKVIDDTNITRLQLET EIEALK*ELLFMKKTPEEEVKG LQAQIASSG\LTVEV\DA PKSQD LAKIMADIR\AQYDELARK\NRE ELDKYWSQQIEESTTVVTTQSA EVGAAET\TLTELRRTVQVFGD STWTSMRNLKA\NLENSL\GEV EARYAL\QMEQL\NGILLHLESQ LGQTPRTEAQRQAQEIYEALL\N IKVKLAEAEICHLTRPPSWKIGE DFNL\GDS\LDERNMQTIQKTT TRRISWIGQSGVLRPIDTKVLEA LSQQEASGTLLGKQEANKKFQS
14098	44466	A	14180	275	550	
14099	44467	B	14181	729	909	

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14100	44468	A	14182	1	1415	MGTQCDLLAKSLEDPCVDEVE DAFQGLGKEDEEIEQFSDKTFG SGAIDDDWREAHECLAEEVVK QPVAVIEQTGNGERDEMDLLD DHEENLAERLSKMVIENELEDP AIMRAVQTRPVLQPQPSLNSSI WDGS/VSSEANPRTTACSGNAY SVCIRICFASEA/SPRVQKMIGTF LNEHYQGGQLHLSLAVLLELS P*APHLNRWLYPASPNRFCVRS LSMFGP/QMPPRYPAPYGERMS PNQLCSVPNSSLLGHPFPSPVP VLSPLQRAQLLGGACLQPGRM SPSQFARVPGFVGSPLAAMNPK SQAPMFRPDTTHLHPQHRLLH QRQQQNRSQHRNLNGAGDRGS HRSSHQDHLRKDP\YANLMLQ REKDWVSKIQMMQLQSTDPLYL DDFYQQNYFEKLEKLSAAEEIQ GDGPKKERTKLITPVAKLEHA YKPETIICQALCRALHINYLTKA FQQAFEVSASIIITYR
14101	44469	A	14183	204	560	QGYWRGCTSSGGDGGCRGCW SPGKRR*GLSRTASGPPAAVAS PGRPRSPPSARTG*S*PGA*ARP CSRTW/PPRCPLRPPSAARASA SRV/APL/GEPAPANTNIYCAAL THRATKSSTREF



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14102	44470	A	14184	59	1695	DMPWWPVL PWIKDSSPSSLEM NPDNTSGLRQKSVEAEPCLW MVHRYTPQSTGEACTMAKAA GPSSP\GSCPPRPLGADPWMSR LSH*EC*KTGTTASGYRRHQET APPESSGSPVGLSAGLWLSWA WPVSPACLHPGPPLCP/GPPALG LGPRSPAAS/C/PPLPEAPPACSP FCP*GEISSSGPLEVPVQV*LPGD LSEPPLGTSP\GRAPGLCSLLRA P/RPGAACPPASPSRPAMLLS*E APRRPGPSGETSPSPSLAPSEASP G\PPR\HHNGRDSEGAGTRTPGA SGSSKG/LGGQPAPHGPGGR*G GGRYRGSAAAGSVHSAPGGCSP HAPGCA/CDVRG/AKPSHFHSG CQSG*GHQTSGGC\PHLGLSPCS TCLCAGQLQQK/P\GSSSGNL* GQGHSSGDLGSAPPHLVPG\PG PLTAGGHG/SLVGDSEWGSPAP GAVLGQNSSGPD\Q\AGRWC SRAEKSGCYTAPPLG*LSAQFQ EEKASWVPPGSGQLED\SHDPY TALPLAAPPWGTGTGCP\PAWP RL/EPDDCGPRHLSPTCSTLPS WGGCAGS
14103	44471	A	14185	264	643	RCLRPGEGRSRQGRSRTGRGK AEEGGARTRQQRRAALLPERS ASQPGPRDS\PRWRRRRQTTRGR ARPASSGGT*GSSWLT\LA WPPR EP*RLRSASAQG/CRRQRLQQR RRGLYQPHRPATCGPRAAD
14104	44472	A	14186	114	1039	QSQRLRPLADTPRRSNR\PCSA GLLFPQSFWSQELSQGAFLPPS SPCLHCLPGTAAASRHQ\RSPT RPSVQERRETHGLCAHRC\EW AGSPA\HGP*AHRFVSRAGSPA HGP*AHRCISRAGTPARGPY\SR VSEAGSPA/AVVSAPCSLSS*AC VTG\CSPA\HSP*AHRCASRAASP EHTSREDAEQAP*MQGLCPVH QEPPSRKSVVTS\PHIPPETDCR LLPKNPCANKHQPTATGGRAV PPEVQHVP\PRSGMTLGSHQPLA LQFQM\QATDAARLGLSPQGQG SPPGPRSTLLLGCLSLFQLSLLR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14105	44473	A	14187	1	1629	MIIYVENPKQSTSKCVRAYTFS KVAGHKAIEKRLEKLAVDPHR DRAQMLKVENVQQA WQQWIN KLPPARREDEDVKEIRWMIEEL RVSYFAQQLDHTGVDRGQPGA STWSASLMCSVTQPKLKTRKP GFLGLGERNCFSVYGAGRSW GRGLGSCGFWLPPRTRIRAADV CLARWGWRAHRVRVLAKNS RAESMLWSFHKAIEAARTNII QAQTRVEAAQATERRIAADIDD SELKAPRDGRVQYRVAKPGEV LAAGGRVLNMVDLSDVYMTFF LPTEQAGTLKLGGEARLILDA PDLRIPATISFVASVAQFTPKTV ETSDERLKL MFRVKARIPPELL QQHLEYVKTGLPGVAWSFLYSI NQTICLR LDSIEAKLQALEATC KSLEEKLDLVTNKQHSPIQVPM VAGSPLRTTQMCNKVR/CVNP* ATVVPVPVQPPTTQQYQGLDA GATTRVPRSLRSEGSQTQKSP SCGSHSQDNSGGRKAVGARRD RWWLGAGKGPDRCGAKCGLP LSGQKCPTLDPYQVVGCTSKTG
14106	44474	A	14188	3	1010	GLQTQLVPLSSPVASLDNFSNL FGADLHVEKGQVPSSDQHLSQ RCHFPAKPPWSVCKALLPRSNP ATSLSGTSKPNSGGDFNSVTKS QPHCELNSFVL TGHPVLWMM SEHDLADV VQIAVEDLSPDHP VQSCGTVVVLENHVVTDEDEP ALKRQRLEINCQDPSIKSFLYSI NQTICLR LDSIEAKLQALEATC KSLEEKLDLVTNKQHSPIQVPM VAGSPLGATQTCNKVRCVVPQ TTVILNDRQN/DHCSQDGRPL EQQGTGFPGKMSLASQ*HGTNP TFPCHCAESHENKSTSLSQGT QHTLHLCGHRVEPGRHRPSSLR SGRAGWAMLNA
14107	44475	A	14189	1	1710	
14108	44476	A	14190	52	457	
14109	44477	C	14191	1	838	
14110	44478	A	14192	92	514	
14111	44479	B	14193	1	531	
14112	44480	A	14194	1628	2008	

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14113	44481	A	14195	2	1616	CPPRRRPRPRAPPHHRPPAAGARTAAAGDRSRHGPASRVGTGGQQMRKTYCRNSEPSDLDDQGGGSRGGPRRQSKCVRNWWVLGLTDFKNEAADPHDSGAQLASPSGFRTRAAGGAACQSRAMRSYSSALGWSMGLGAVEQGVVLVGEAQAAQEPMEWVGSGSMVGCRSRAPPAGRQLRPDKKLSTAPVGRHRWRPSTPSAATGLGAKSLIARGQQGRLAAPNKTDFKARAVKDKKEGHYIMIKGLVQKESITIINIYAPNTGAPKFTKQLPLDLRNKTDSENTIIVGYFSTPLTALNRSSRQKVNKETMDLNYTLEQMDLTDIYRTFYPTTAEYIFYSSEHGTFSTDRMIGHKTSLNKFKKIEIIPSTLPDHSGIKLEINSKKNLQNQTNTWKLNNLLSDHWVNNEIKMEILKFFKPNDNSDTTYQNLWDTAKAVLTGKFIALNAYIKKSERAQVDNLRSHLKELEK*EQTKPKPSRRKEIMKIRAELENEIKT/QKIQKINKSQSWFCEKINKIGRPLARLSKKGREKIQISSIRKK
14114	44482	A	14196	1097	1686	APRPLALRFGPLPSNSGAQLASPSGSCTGLQVELPANSCTVVRWQVSALGWSMGP/GPGAGGSADQGGSGGTGAHGGVGRFRHGAAGPEPCPMGEVAKAPARNRAQRQWAGTAGGPCASS/NSC*PGC*APYCPGWWGQPAAPSAGPPSPRPPRTRAGPQAPWAAPVPAHASP\PHLPAS*GSPLRPGIQGSKTYQKSH
14115	44483	A	14197	647	1496	FLNLLSWQNLMCLGLKKKRKQFKDYEKKVKELNEERDKYRKGSVYIYTFGKEPTLNKVLDAACDGKFQAIDFITPGTQYFMGCRWSCLPVLHICALAGLSPWVVDGTRRPGAVGSAGRGGSGGTGAHGGVGRFRHGGQLQVRSPAHEVLRPSEKSSAAQWAGTAGGPCASSTAADLGAKPLTARGGGPAGVPPSAGPPSPRPPRTRAGP/PSTVGSPPG/SPPTPLPHLPAS*GSP\SLGQPRKGLPQCSGGLKGWLLKHRQSGCPGRGGAQSERGLRGLPARC

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14116	44484	A	14198	1	560	MAALLLVGASWL/LLLLVGASWLLARVLAW/TYAFYDNCHRLQCFQQ/PPKRNCF*GHLSLCSGA/TEEDMRMLMEDL/VPLFRDVQLWWLGSFYVPVL/SLVHPTFTAPVLQASGG*PGFTTTMGLSFKRAKWQRLA/SEGSVRLEMFEHISLMTLDSLQKCIFSFDSHCQMVSPGSCTTSRGPRIPGALPTGGARAPENGDPKEIE
14117	44485	A	14199	175	2225	RWSSVSFASGMPSAPCCWGHPQCPSAAQPTGPSWAGCRGLTM PNGQASPAS*VPPGAFPFCLIKQPLWENLMTGVGKFSREAATLEGPTLPTR/GVGPQCRQIADLPLERTEGWRGD\GNPVRGVVRQKRKQLVAGETAASLLPCQASGESCSVP*QARGPPVFLFPQ\WGRRWAKGCASRSCF*PDFRPSHAVPGA REGAGLAAAPKRVARLSPA VPPACC\GLQGGSSSAAQAL*PQLSGPRLPREK*GA/PCWRGGPRCC PQNSAPETLEYVEPRGTGAPGT THTGLPSPSQGCRGAEGW/WGLPGLPGPRAGSSPQPRGRAWRPRARTPPPASWAAKGRGRPLAAGGLARPRDPGPGSGVAPAGSLRPHSSGRGWGRRRLRARPTGGNRGSEWPR/RPPGYPGARPGAPSVPRPQP/PAA*TRPLPVGCGARPFHPVPATV\VPHAGPP/SGMGRRRG RYPRPASARPAGRCGAGSAEPGRGTDKGGDGGEGKTKRGGG/LGGGAGAPKAAPGAAEPMGGRGAGAGGGGA\R*GGGGGGSGTTGSGSSSRPPRTRAPPETDPA PRPRPGLVRAAGGGAASGSGTGRGAEGCGVRAARGVPASLR AALARGAQARVLVSGPAPGWA EPRPAGGARGVGWGPVLAGP GRGPRGGAGRGPRALSRCGA *AWTPGRGAGQRGPGSGRGS

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14118	44486	A	14200	1	2850	MHPQERTAAATNAIIITDGAA TQMGVTSTPAPGHPRDGYQ KDVSLLAHTHSFKISAAIEAKTT WVGMCRWGCKVALDVTDFVH QGKPEGAGRNKQIPFIQDFPFAL RSEKRPSLPATISGKTLPLNTKT CPQLLQCKREGHSLQCLIWLQ MVPQLGRLAVGGCHSNAWFPS KKAVIWEKFKHNLSGLVSDKG GKRTGKGLGECLLMMRKMSP ALEALTTFDSSLQHHPRTFPVS ALEALNPGKPRQLVTPA
14119	44487	A	14201	1	1570	MQSATSDAGSAPKKQKKVMTL QEKSGIAWYFFTAQEWPNTPP KLRTCTESMGCCLLDCCCTGQ GDWTRVTLYCRYPFILFGTNA WVANFERPRMNANSLASPTG LSPYLRFGCLSCRLFYFKLTDL YKKTTLGSLPDAAMAFVNCHG AGGTVAVRTSRGHSRCHFGFG VSGTRYHYLTPQVVWERQQQK VDSLLGTQQMLEAQGREF/PGP CIPLPVPTNAPAAKTPQPPSPD L*PPNYLFLCVDGHRPIC*EPKQ NKSDSFTSQA*SQDG*YCGCS/C RAPRPHGTSATIPMSSSCKRFQP SSPF/CKGPYHFRFLEERPLASRP SIHPSCGSYWLRLGCVAVGRGTG /SRLNLQLHSASGLQALSKQR*R YCQSAGAGSPEPPRGGTR*CCR EAAPGCRAAGTCPSAANLPSLR RK/PGTC*PQNPPGRCGSCGASA AVLAETPARIRRSFPRARQSCPR TWMAAGAPGSSRRQGTKHVT* *SSTLEKQLDNPTATYFSVPTRK PVH*NQQKDL*VTG*LQIFHL
14120	44488	A	14202	11	356	VSGPPR*APWCPCLAAPTGSTS HGSTARDSSTACKVS/GGATCV/ SGCGPGLGVLGRGLSSTRSCCM PAG*CPSSKDTCEKSGGRTQPV PPFEWAAQDASLVRRCRILAH PCRGTS
14121	44489	C	14204	333	473	

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14122	44490	A	14205	344	1035	QSAAQWFWWPGRSASLGGAK GMQPPSLASWPHPRSIRCLRAP AP*QFTNATDPRFRSAPRRSGQ QQPRGSSGPAALASPSRQPNR AGALRTGGAGWATALDTWSC PRTRRRAPMGSC*AAAQQCV TGATWPPPSAIA*QSAAQWFW WPGRSASLGGAKGMQPPSLAS WPHPRSIRCLRAPAPCSGPSASS AAVQVACCCSLACCGSPRPASQ GHLDTPTITSPETCTTSLWSPQR RRAAGPPKVVDIPD*RGSRRLPS GRGAPNTTCIPYGGSPGAKWIE GCPAQ/RPSPGLHPAMRASAL LLMPFLQRRHRSATRLLLRPGS DCTGKK/GKGFLAGPETKRQKR LCPSPKTLGRALGQEQALPANV RC
14123	44491	A	14206	41	292	
14124	44492	C	14207	480	1637	
14125	44493	A	14208	3	410	SPPCGAPPPPVFCAPAPRAPAPP RAPPLAEALPGFASAAGSAPA RSGPAGAG*GSRSRPRARASAS LAPASAGDHLGYPSATAAAAP ASRPWLWRPSLNAARLGDPAC GWQASQWAAGSA*RAGSQWA AGEARA
14126	44494	A	14209	1	1274	FFFFHPLRSLGLDLGLHSQERSA PEIKPGALESTWSQARGAALRL AEAR*RAAPAAGTACSAGGAA SSPR*GSRATRRRRRGPTAPSRA ATAPGRGAAASAAPAARPART ALMASARGPP\TAASPAQALTR SAPGHLPPMSELGAVTALCESC PVT/AAPRSGGGEAGGTLASEW GRTCRNYG/PAPGIWPRPPLSAA RPAAASPPARRIWSPAPVHSA ASPIGLRVAAPCSSGSAVPLRSR RASPPCGAPPPPVFCAPAAPAP APPRAPPLAEALPGFASAAAC RGKLRLALQGGGLGRSGSRSRQE GPAAGS*LRTGKSWSPPPGSA PLPLAQVLQALVEAGSRSRPRA RASASLAPASAGDHLGYPSATA AAPASRPWLWRPSLNAARLG DPACGWQASQWAAGSA*RAGS QWAAGEARG
14127	44495	A	14210	2	335	

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14128	44496	A	14211	344	1062	TRA EVTQQKLSRFASPPPVLRRL RSYVSPPAAPTADPRWRPSWST SLRWVVKPNVSA YRIPPRASNR GYRASDWKLDYA*\WTGRLRIT SKGKTAYIKLEDKVS GELFAQA PVEQYPGIAVETVTDSSRYFV\I RISDGTGRSAFIGIGFTDRGDAF DFNVSLQDHFKWVKQSEISKE SQEMDARPKLDLGFKEGQTIKL CIGLCSKPGTTAIQLGPVLNGIG RTLRTDLRNKNDLEGTNL
14129	44497	A	14212	573	1017	TDQGVGSPHCPRFQQGPPRSPR FQQRSPHSPDSSRG/PPHSPRFQ QGS PHTPDSSSG/PPYSPDYSSG HPTP/HTSQQGIPC*DGHWLPC GPVFLWSEAPHLNPGLVWGQ PRAPALPGNSAESKLWPHDRPA RPETPGAGTAWAHQALRV
14130	44498	A	14213	707	836	
14131	44499	A	14214	724	927	SFMDFRFVLLFFHLVPNPK*RP VS/SPPGSKLLVPPWGPKTPVPP HPSPPPPAHGEPGLPPPPPPPLPH
14132	44500	A	14215	29	157	
14133	44501	A	14216	1	363	
14134	44502	A	14217	770	952	
14135	44503	A	14218	1053	1995	KSSEPDLSHSFIFCSPNFPSSSL KRPH\FQSSILACVFCITADSSRA PCVLRVCDGFAGLTRSSAPSSK EKPCGFSLPEFTPLAVSFPQAAL CSLGTVSLRPRPQLTPSWCEP VLLAGAVCPGLPCAAIGCPWA GEEGCPGATSQLDQVSWPSLQE APEVLWPCLDSWGWFWAPSTV IPLMASPRFGFMGRSQQPVLIN HLIKEPKAKFSNKNHSIRCCQG QRKWRRGNAAGMCCQPQIPGK GEVKTEFQPVSNRSVNYGCTM HFQETLWTPRLGLGDGDSNNN NNNNNNNRITANPGKEAEKPE HPHLLVKM
14136	44504	A	14219	482	833	THQGARGCTHARVSVREMRTR RGRWATGMRVPAPCSSVHTTA VQRQQVADQLQTTAELSME/IL N/KWDQDPEAFVRKVATSYET WIS*YYPEDKAQSKQWLPRSGS GATLYSATNQYP
14137	44505	A	14220	195	367	

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14138	44506	A	14221	989	2210	LLVSCAILLSVSFLHSSSFVRSRS NRDSPACVDATYRGCSQCQEG VCGEACSCFPDLNQPQGVHAG EGVLPCSGWEDTFGKNTCLVS YQQIPNKRRPCTCEECGKAFGQ RSHLVQHTSEKLYACQECGCTF SNNSSLVKHWHVHTGEKPYMC GHCGKCFRESSSLAKHQRVHT GEKPYVC/GESTHLVQHW*FHT GEKPFAC/HR/CSKAFADFSALL ACHGTYTGERPYECRVCKAFS PSLSLAEHIRCHTGEKLYACQE CGKAFSHSSSLSKHQVHTECG KAFSQGSYLTQHLKIHSGEKPYI RGEHPYACGKCGKTFSSKFLT QHEQVRMGEKPFMCGDCGRAF MQTSSLALHQRTHNGEKPYKW NECGKSCIQMSHLTEYYQNLPE KGSKDPHTDATVHSPVMD
14139	44507	A	14222	1	245	PPFRKQQAQHRNKTVLVSRSQP VPVTVPE/PSA*RSTPEGPRRAG CDPRP*PCPAGPELPAQMKVLA IEQLLSLHFKKALLF
14140	44508	A	14223	477	947	LCSLSSLPPPPPPPPPPPPPPPP PFPPSPVPLPPSPRSPVSPPPPH SFQGRSPSELGSSAEPWLRPGT WV*/PPPLTFSQQAASSAQK*N CPGESVPQVPVTVPERQPDAAAP NHSLLLPGQQCFWCQGPHPPY WMGPVDASSSGFLSQSFY
14141	44509	B	14224	438	1437	



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14142	44510	A	14225	584	2866	WHFAKLSRNTQDHTRPTLGAA QAVPATGQPAAPGPAGAGPEW VPFLAVYKEQLVRNDSVLKVFF FPPIFYREGWVCCSVVESHLQE GFVWLFSLQL*PPKLRSLSLSY CLSPSDIEISRQTPKAVDVLA KEIGLLADEIEIYGKILVSSAGF A*VVWEIL*NSLSPPELRITPTPL GEGKSTVTIGLVQAVSLGLCPS WQLYLVTALQPGQQSETLFLK INK*KDILFL*FNLHLTGDIHVVI SCELSKFMDN*LLCGLIFVLCFF RGIILVTLCFLFLKLLTFFLLNH *KLGINKTDPRTMPDTHQVAG PYLSTDD*SVLFQ*SPAPCGNG HPTGTVADHYLCLGW/YQAQF DIAVASEIMAVLALTDSLGREV PRG*PLPG*YFVRNLMFFSHLPQ IDLGFHASVCLLGF*FAFSLL*G TPVFVHAGPFAADRDLCPYQFL LCQTHIYKIHVIMAIEYFQRYKL MMYAKQTSPLCDLEQAISLSGC VPCRHSCLKNEKFSCCTGC*QYL PKLSLPNSDPLTLPFSADYGFKF ESNHANHSGDCQNLPLFLEDNS TYSTCFPTVTEAGFGADIGMEK FFNIKCRDVLVSFRSVV*AFLLL AV*LGRFGGRQYTGWVLLFS FLQNIQLVADGV*MVSLSLKT* LNGYRCKTTNIFTRTDTRAID LVCELAKRAGAFDAVPCYHWS VGGKGSVDLARAVREAASKRS
14143	44511	A	14226	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGGLLDGLHAVAIAIQG ITKIETTPNHQRAPAHWTLTQ QAHLPSPPLHFNLPLTLCLMHC PTAIPHCFAADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEE VLQAEGDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLIPGDP KHHYGPPVKVGAYGAQLL

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14144	44512	A	14227	2	1256	CHCGPP/VKVEAYGSQVLKGVL AQVQLTVGPVGPRTHPVVIFPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRWMTVGYCKLNQVVTPI AAAVPDVVSLLSEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHL\PIYRV SRKAANFEWSPEQEALQQVQ AAVQAAWPLGPYDPADPMVLE VSVADRDADWSCWQASI/GHK VGHAQQHSIIKWKWYIRDWAR ADPEGTTKGQGQRRWWQLAE RQDSRDREAAIGERQETAVGKT ARDGEAVCD
14145	44513	A	14228	155	531	GNLWSVDLRPGTPLRQNFRTI RQQHSRFTKNHCSQTPLLIPRQ TGSGVDLSKLQQTCS*GSCLVC TIDLANAFFSIPVHKA/HQKQFA FSWQ\YTFTVLPRLTWLQPC*V PNLPAAETNTEPSNGT
14146	44514	A	14229	1	518	MTVDYCKLNQVVIPIAAAVSD VVSLLSEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLCFSLPLDITLVHYIDDI MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
14147	44515	A	14230	281	1140	VRVLSPEKELKLWKNTHKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLIPGDPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPHIGSLTGIMVGKAKWKQ LELPLPRKIVNQKPYCIPGGTVE ISATIKDLKDAGVVIPTTSLFNS PIWPVQKTDGSRWMTVGYRRL NQVVTPIAAAVPDVVSLLSEQIN TSPGTWYAAIDMANAFFSIPVH
14148	44516	B	14231	1	1521	
14149	44517	A	14232	3	202	
14150	44518	A	14233	2	367	

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14151	44519	A	14234	1	553	MTVDYCKLNQVVIPIAAVSD VVSLLSEQINTSPGTWYAAIDLA NAFFSIPVHKAQKKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIIKWKWYVH DWARAGPEGT
14152	44520	A	14235	3	728	
14153	44521	A	14236	1	635	
14154	44522	A	14237	3	266	
14155	44523	A	14238	1	1245	
14156	44524	A	14239	2	837	CHCGPP/VKVEAYGSQVLKGV AQVQLTVGPVGPRTHPVVIFPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRMTVGYCKLNQVVTPI AAAVPDVVSLLSEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLPPTTK K/EAQCLSGFRREHIPHL
14157	44525	A	14240	1	533	
14158	44526	A	14241	1	1043	MTVDYHKLNQVVTPIAAAVPD VVSFIEQINTSPGIWYAAIDLAN VFFSIPVHKAHQKQSVFCWQG QEYTFTVLPQVHINCPALCHNPI LRDFDHFSLPQDITLVHYIDDIM LIG\PV*NMLLHLPPTTKKETQ HLEVLFQFWRQHPIHLATPSSP NGPMNKVTMMA/ANVGAWD QKHGLPLTKANLVMAIGESV/ SPAAETNTEPSIWHHSSGQDSQ VQESKGGNGSGTTHHHP**STS KIFASCSDITFCWPRGLSSRGR NAATRRHNNNFIKPEVKIAFWT LWDPPTFKSTG*ERS*SVGWW D*HELPR*NQSTTPQGSVSIIPH GQPPHQLFGVAKARTFGIT
14159	44527	A	14242	1	336	
14160	44528	A	14243	3	1885	
14161	44529	B	14244	1	1423	

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14162	44530	A	14245	1	1361	MIISIDAEKAFDKIQPFMLKTL SKLEETASPSPVVATYTPQPM PSAFPLSEEINPVLPETTVMAS PEAVTRQDNVDSPOKPPPTPMF ASRPITRLKPRRAPSEEGIQRLK KIGMVEWISHFRPTPLSMGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKQYHIPGAITEISATIE DLKETGVVILTTSFVKSSIWPLQ KTDGSRWMTVNYHKLNQVET PIAAAVPDVVSLLAQINTSPGT WYAAIDLNVFFSIPVYKAHQK QFAFSWQGGQYTFTFLPQGYIN SPDITLVHYIDDIMLIGSSEQEV ANTLDLLPARVASWGVYPDQL T/GGRED*GLLHRWSCRICRHH PQGSWQES
14163	44531	A	14246	1	1795	MRKCGKPQFKLGQTNKANSRI QEELIHSKSLIEQEGEKPQVQSA FHRMWQPADSQCDIIDSADIWA DPLVRHREIITGSGGINRRRTRG GRGRGGEAAGGAENCGSREER ERAGVGTAVTQLQNLNTIGIIGS RGGRGQVAAINHQRRQGGHSYC KGQKQNSNQNSVTHVELWH WLINHSVPRSEIDRKPTTFLNL YKQKTSRDLWPFTRVTLHRGK RNDQTFQGLLDTGSELMLIPED TKHHCGPPVKVEAYGGQVING VLAQIQLTVGPVGSNGTHPVVIY PVPECIIGILSSWQNPHIGSLT SRKTDGSRWMTVHYHKLNQM VTPIAAIPDVVSLLAQVNTSPG SWYAAIDLANAFFIPVHKAHQ KQFAFSWQGGQYTFTVLPQGE TLVNFSLPQDITLFHYIDDIMQI GSSDQEVANTLDLLPRKSTTPS G/LYGFWRQHIS/HLGLLTPIY* VTQKAA/SFEWGLEQEALQQ VQATVQASLPLGVYDPADPMV IEM/SLSDPSSHKVGCAQQHSII KWKRYVCDQA*ASPEGTS*LY CTSFIMEKEEVC/LSLEQTLTLD MGLPILHAMLLWIHLWIHGLPY PSSWYSTQCL

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14164	44532	A	14247	55	1241	NRFVRAAPASLKRSAGIGLLCM PDLTVGIVVTQLKNLNAMEGITG SELTLPIDGPK*HFGPPVKVGAF GGEIVNKYLAQLGLTDDPVGPR THPVAIFPVPECIIGIDILSSLQNP HIGSLTGRVRAIMKKGKAIMKGY YEGKGKAKWKILELPLPRKIIN QKQYRIPGGIVEMSATIEELKY AGVVIPIPTTFPLNSPIWPVRKT DGCWRMTVDYCELNQVVTPT AATVPDVVSLLEQINTSPGTWY ADIDLANA VFSIPVHKAHQKQF AFSWQGGQYTFVLPQG\WTV NSPALGHNLI GRDLDRFSFPRDI TLLVHYVDDIMLIGSSEQEVAN ALDLLVFSIDLAIKWVMHSSIA SSSGSGICVIRLKKVLKAQPAP MASWGVLYDQLTEEEKIRA
14165	44533	B	14248	1	346	
14166	44534	A	14249	485	717	
14167	44535	A	14250	1	345	
14168	44536	A	14251	300	689	TKRAPCSPAAGSRGRARSLALL TLYHGHYPALPPGPTPAQQPGR GLAEAAEPRGSEGGNGSNPCG RA*DGRSRREGRGRLGGWRPC CEPQPWRQAHPAGPDRVDGG ERRGAGVLRGQDQGDEKKKPK

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14169	44537	A	14252	1	2430	MAVLQPSRHRLRPQLGLEPDN WHSQQDEVSSVATARA VVPSG RGAA WMGPSGNIGGSGLV SHE CGEGTGAAGSTQLQEGMHFCR QSRWAF LTALCEVYTQSLQDT VQWLQLCQWSAQGQDDHTLIE WLMGATWTVWNDAREIPETG TGQDA WLCGSWGVDDQRP HV ELAIHCSPTNVQRVLALVD TGA DCSLVFGNPVRKPDGTWQMTV DDWELNKVTPPLHAAVPSIMD LTDH LTMELGQYHFVDYVHSP TICRGLVAMELA AWKCPKGVL LFHYIDDI MLTSDSLADLK VAV PLLWQH LAACGWAINSKVQ WPGLSAKFLGVIWLSKTKA IPE AII EKIQAYPRPTTMKQLQTFVG LLEYWRPFVPHLAQMIKPLYGL SKKGATWDWDNEAGTDLLAA KWAIQQTQALQVIDQGCPFELD VHVTTDGF GWLWQRMECFR TPVGFW SQLWKGAELQYSLIQ KELAAAYAALQAYETVTDWA TVIVQMSYPIVGWTGTAQT TTTL AKRGAYLEQQSMLTTTTP LA AE LQEALGP IVL MEDKAMGPEAPL DPEPSLLKKGYP LVPDGA WYT DGSSQGA AAA WTAVAIQP/ITD TI*FDTGCGQSTQWAE LR VVE\ MDILEACQKCPACAQAYLRQR QLPNVTQQVTVGQMPLTRWQI DYAEPLPKLQGYTYALMAADI
14170	44538	A	14253	2	239	
14171	44539	A	14254	3	211	VVYYSPNEVKVVAEGFDSANG INISPDDKYGPL*NIFIFLQLWC WPNSLLCFLCQCENSFLDIYGIL
14172	44540	B	14255	13	87	
14173	44541	A	14256	42	854	VLVFLTAALFILPTFSNSMMILQ VSGGPWT/VILRRGVLLGVAPP PSLPALAPENSVYQERQECYAFN GTQRVVDGLIYNREEYVHFDS AVGEFLAVMELGRPIGEYFNSQ KDFMERKRADQLPDCRDPLMP D*GVWISPLGQQV PNLTAQKTL QHLP SKKEPQQHHDLLVYHVT DFYPDSIQVRCFLNGQEETAGV VSTNLIRNGDWTFQILEMLEMT PQQDRT*AGVQLLEVTLNLSLF FLEAQSDSVQSKMLTGARGLFI NYLQLNLCTP

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14174	44542	A	14257	3	571	QGRATPENYLFQGRQECYAFN GTQRFLERYIYNREEFARFDS VGEFRAVTELGRPAAYWNSQ KDILEEKRAVPDRMCRHNYEL GGPMTLQRRVQPRVNVSPSKK GPLQHNNLLVCHVTDYFPGSIQ VRWFLNGQEETAGVVSTNLIL NGDWTFQIVVMLEMTPQ/QGE DVYTCQVEHTSLDSPVTVIEW
14175	44543	A	14258	1	1677	
14176	44544	A	14259	2	430	
14177	44545	A	14260	821	1428	QVTDVQDFPLKCKIQWRRTRV GDLQ/PFTRVTVHWGKGNQDT FQGLLDTGSELTLPDPKRHC GPPVKIGAYGGQIINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTDGSW RMTVDYL
14178	44546	A	14261	507	910	
14179	44547	A	14262	1	2898	
14180	44548	A	14263	1	2580	
14181	44549	B	14264	159	2657	
14182	44550	A	14265	142	377	NHLLRRQQWQTPFPPPSWS/SPR SSSDCCGSSENFKPVDSLGLGSV GVGPTEPDHLDPLWLPQPFQGS RFCLAGVPGATG
14183	44551	A	14266	363	638	EVWKESGWHLAAGPLGQSFQ RKEQAVIFAVLQPLLVIPKQTGS GVDLQQTPAHLQQRGLSGCLQ SLCSLTSS*PQRHPQNSSLVSN VVS
14184	44552	B	14267	1	2424	
14185	44553	B	14268	446	623	
14186	44554	A	14269	245	690	APSRSTWGSSSTAARRNLKTTR KLRTPRTPPHQKPRNPHHGPPR TPSG*TPRNPDRPPPGVPQVGQ PGCWAPSQGRGWGQLGC*RE EVPGGGHAGRHSTPVGG/DFFL QAGPWPPDASLPTNPFVLRGAS TPPHPLSENKDKFLLQK
14187	44555	A	14270	223	365	

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14188	44556	A	14271	1	687	MSEYIRVTEDENDIEIPSEDD GTVLLSTVTAQFPGACGLRCRN PVSQCMRGVRLVEGILHAPDA GWRNPVYVVNYPKDNKRKMV LGLPWKTTEQDLKEYCSTFGD VLMVRQSQDEPLRSRKVFVGR RTEDMTEDELWEFFSQYGDVM DVFVPKPFRAFAFVPFADDQIA RSLCGEDSMKGISVHISNAEPK RNSNRQ/LRSGRFGGNPGGFGN QGGFESYQRCERKAV
14189	44557	A	14272	1	833	
14190	44558	A	14273	3	447	RGTAGGQPGNGPALAQSP*WC RLGSGGT*GKSPGTSQGRALPW CSC/SVSTWATAAPGSQQRASP CSWAQPGPLASRLMLPPRLR* GHLGHLAWLQLFAAPCPVIHV AVMWSLLGIALRKVHGDWAPL AILSLVVCASNKLNKKKKK
14191	44559	A	14274	988	1803	RAARVPRAPLEAVAHRWASAS EDDGTVLLSTVTAQFPGACGLR CRNPVSQCMRGVRLVEGILHAP DAGWRNPVYVVNFGDVLMMVR QSQDEPLRSRKVFVGRRTEDM TEDELWEFFSQYGDVMDVFP KPFRAFAFVPFADDQIARSLCG EDSMKGISVHISNAEPKRNSNR Q/LRSGRFGGNPGGRLQGTRY PAPAPGSPGRAQGLVAG*SRPS GSWLSGHLQRPEQSVGRAPAA PRHAVRRSLRRLAALCRRTAR CRRALHVSPQRRRH
14192	44560	A	14275	3	184	
14193	44561	A	14276	1	352	KAAMVRFKHRYLLCELVSDDP RCRLSLDDRVLSSLVRDIARV HGTFGAAAC\SIGFAGTIRTCQK FLIQYNRRQLLILLQNCTDEGER EAIQKSVTRSCLL*EEEEESCEEA AKAME
14194	44562	A	14277	1	456	PTRAVEAAMVRFMHRYLLCEQ VCDDLRCRLSLDDRVLSSLVRD TIARVHGTFCAIACSIALLALARA LNEEGNPEGWRDVAGASAGGR KKGHECPSPCTVFCTL/RYPNA YTVIGLLRCKKELYQVVWSVL YLMTYLENKGHRYPCFFNTLH
14195	44563	B	14278	34	267	



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14196	44564	A	14279	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSLAGILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14197	44565	A	14280	2	1044	SSQMPSPQEGMCGKACTPALS QADSLCPLLRLASEVEGYWQM ACAEPYVQSEMNDHLSVWSLQ HGSTTLASMSFTTCSAFTNYWS PGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTSFGGLA GMGGIQNEKETMQSLRDRLAS YLDRVRGLETENWKLESKIQEH LEKNRL*LETEIEALKKELLFM KKNNEEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAAMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV
14198	44566	B	14281	247	857	

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14199	44567	A	14282	1	2104	LRGSELAGGVAAPDPSSRARAP GRGQGSEPPRRS*GRGRAPPRA HTPLDDFPFGRAALSPGRGLSS RRPDPGSAGRPLLLCLRPLHSP PPPRGCQAPAFQSLPSFHLALRL RSSGEEKLWGPRRAPAAP*SQR RKPDPARPGLAAAVPLRPV*AS D*GAAQVPPPSPLRDGGQPGGR EGVGRRTPHRAAAWLLGE*AA DAAAFHWDGGRPPAAPARLLP GAPHHREDRVHHQPRGHPLQH QSPGDPTPAGEQHASRH*LCRN PETQKL RH*TSERRDGHREEEH TG TAGVPRSRPATQRPHAVPAG GLQPHRMLPALSSGAASGGEA EHGQLSGRGREEDGPVWPQLP AGLQGHFRGESPRWPPCLGDGS EN*PGPVQAEFSGG*DPAVSESE DNQPRSRQFLRLQREEKAKPD QRFTYLPANVPIIKTEPTDDYEP APTCG/RGEPGVKSSPKTILQPA ARDATRPQLLPRGRLPALSAEK HPDASSPWREPQAPRPF SRCLH QGRCQPGPLSPRTPAAGRRGPR RPGVPRPVATHPGSPGQPPPAL LPQQ*MK*YEMTSPARAPTPSC HIGALSSAGVC*LQQT KTFE*IN *THTWYHSEPPTD*MPGAEH*Y VQRLALQQEGKQGGRETTVSP GGEVIS*QKGGGRAEHGRPTV QGP/SHGNNGPHAV*PHAQPFWH PWGSILEVPYLTRPSGHHRIEH
14200	44568	B	14283	41	4224	
14201	44569	B	14284	1	1332	
14202	44570	B	14285	140	215	
14203	44571	A	14286	234	657	VQQPGRGLDLSTDGPGRSQV GLIWSCCLH*AASGEPGGRCP GS/GAPGPAGSALEFRARDGVP\ GVGGPSWESHSPAAATPPPAEC RGPGPTSPAPGEAAPEDREDG AAPGRAEPASIVAPADGSQGG VLATQAGALGA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14204	44572	A	14287	134	789	PDSSQAPSRNSTRPAASTRKSSS PPAARS\AGNELGSSRGDADPPP QNPTGPAPQSAEVPRCD/SSSA WASNGSSISPSFFSLRPWPSST/S KVPGAGHHTPPEGAGGASAR\S SSLAPSAGAPVPS\A*RSQLGTW LSVLRPRSL*QSRVRSPSSHVSS PGSMQAPNSPSSFQPGMNGAWI WWL*THIPLARWPGPPGILVITC PTVTWIKWSFICSFHPT
14205	44573	A	14288	465	1541	GPPKRKLISNFSKVSQYKINVQ KS*AFLYSKK/QTESQIMSELPF TIASKRIKYLGIQLTRDMKDLF KENYKPLLNEIKEDTNIWKNIP CSWIGRINIVKIAILPKVIYRFNA IPIKLPMTSFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DLNLYYKATVTKTAWYWYQN RDIDQWNRTEPSEIIPHIYNHLIF DKPDKNKQWGNDSLFNKWCW ENWLSICRRLKLDPFLTPYKKIN SRWIKDLNVRPKTIKTLEENLG NTIEDIGMGKDFMTKTPKAMK TKAKIEK WDLIKLKSFACTAKET TIRSFQSEKSHTLVRATRLVSD HSQSFEAWLQFLGDTRFGTQKL RDSD
14206	44574	A	14289	1921	3199	GYLAAGQVTSRIHTGRRHFSGP ARCPVSCCRRPGC*PQPAVRP SG*HCRKTAPSHGPSIWQTR**P GSWPNL RPG*GWRWLRAQPRG RGIPVGCRSNLQLHPTKNPGSH *GSGSPWQC PGVLL*ASGRQPG SPSGGCT*SSGKAGLEPQWHPA IPGHCRNKPAAPASWERAPRPR AHALACGWWRYSSC*SWRS*S SPETPGPAQV*CHRPCPAAWW RCHS**TAQFL*D*FS*FLQTIGE PCICPKISVPH*PMKQSHRGIG GCLQYSSHPGIESSLGMSRGF/D RRDL*TLQIGS*RHPRAGPEGA AL*CLAGESSLRTSPAPCPGSPH TPGSSASGNTSPV**ETGCGSRQ GSARLVLESLLSR**CLSGPSRP SCLLRGISWQCGTAGRLSSSGPP AASGAGADAAPGGFPRLPCLEF GTV
14207	44575	A	14290	3	626	

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14208	44576	A	14291	1	1065	MRGSCERSGEDEEQKEEAMVA CGRLSGVPEAEQGPEANWDS LETEGTDGLGELVRDTLYLRSC RAHSVVPISCFLRQGS AQELNL RHRGLGPQGARALASSLSSNPY VKRLDLRDNGLCGAGAEALAG AL/QKQKQHP*CGPVGEPAGSG RSPGP/RVPPSQ/CNQAMRKM LSGNGLLEEQAQHLAELLAH TDLKSLDLSYNQLNDQAGPAPS LRAFPQANIFLKVLDISYNGFG DPGASAVGEALKANNVLEELN MSNNRISAMGALSLGLLRVN QTLRILVLCVRVSQVSRNPMRS EGCFGLLKSVQDNPASALELLD FSDIQVNAEFDGLASSVRGILPG LGIKDWRLQSGV
14209	44577	A	14292	1	416	
14210	44578	A	14293	2	384	ELWVVTSMAYGSAKDLICTH FMDGMNELAIAIYLQGV LKAL DYIHHMGYVHR/DLQGYDAKS DIYSVGITACELANGHV PFKDM PATQMLLEKLN GTVPCLLD TST IPAEELTMSPSRSVANSGLMTA
14211	44579	C	14294	142	474	
14212	44580	A	14295	1	1470	
14213	44581	C	14296	91	471	
14214	44582	C	14297	195	480	
14215	44583	A	14298	121	1130	SRSTQYELMSFLTNDASSES IASFSKQEVMSFLPEGGWYELLTV IGKGFEDLMTVNLARYKPTGE YVTVRRINLEACSNEMVTFLQG ELHVYKLFNHPNIVPYRATFIA DNELWVVTSMAYGSAKDLIC THFMDGMNELAIAIYLQGV LK ALDYIHHMGYVHRSVKASHILI SVDGKVYLSGLRSNLSMISHGQ RQRVVHDFPKYSVKVLPWLSP EVLQQNLQGYDAKSDIYSVGIT ACELANGHV PFKDM PATQP/M VLVLSSPDAARETERHSALPVG YQHHPR*GADHEPFALSGQLW PE*QPDHQHPPALQR*LALPPLP PNLLPPLPLC
14216	44584	A	14299	304	412	
14217	44585	A	14300	2	350	
14218	44586	A	14301	191	299	HRPATAVLHVPTSRPPSPGSRPS *PPPAALLWTPA

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14219	44587	A	14302	537	5523	LARYYKFMHQDRQGVARNLL CQKEKRR*YTTKCEDNTCHWT GRTSS*PRSV/SNLNSQCGPRLW PPVTIIRQANIKTGEKAH*TSKL LPPVQLKFPARDDTLWPWGYIP* QLRRPSPR*SILSMLPRKVVPCL *QKP*TVCWK*EPLSYIHHSVL LKMMIPMPMTLLGA*CLTQAL K*SRMERKKGRAAQRSSTLGC QSPRGSPGGGPGPPGPPGAGKQ QNSVQTSRLLARTLI*SFSSST VKDKELARNTAP
14220	44588	A	14303	2868	3095	PGWAGGLFGPSAGMRAWATK PSLTPPAPAGQRCPPQGHG*SG PGIYAVQPPSVPAWAAHATTQ ARLCHPRSPPLR
14221	44589	A	14304	693	821	SDRQT*RQEKRLTRRQSCCLPC N*SFQPETTFLHGPDTFHDN
14222	44590	A	14305	338	645	
14223	44591	B	14306	181	480	
14224	44592	A	14307	155	543	
14225	44593	B	14308	1	1260	

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14226	44594	A	14309	1	2025	VINIINAAQESSMPVTEALDRV LEILRTTELYSPQFGAKDDDPH ANDLVGGLMSDTGLEIHKDGEE EGESRTAQQYPGLSESTRQPWR RSRTPRTTWGWKATEQQCPDF PPPGPHPHLELLIFHCEGQGTGQ KHSTSYPCITLMSEKRGLMNVFF AKYTGPAMRKSSGLTPSLLHLY CADPLHSKPLFNCPPTTSKTEI LGSCNCSPSESVRGAEKGDQEL LANIKQAEKHEKNHPEVTVM ALTDIDLQLQFSMSQPEALLLL AAGPADHLLLQLYSGHLQSAT GIYGEGRASSATLEDLESQYQE LAVALDSSSTIISQLTENINSLVH TLKEEKHEIHQVQKLGRNLFKL KNQTAEPLAPEPPARPSKVEQL QDET NHLRKELESVGRQLQAE VENNQMLSLNRRQEERLQEQ EGWQEEQERLLDKNNENKSAL QLEQQVKELKL\ENLEATSQ*K QQL/TAQLSLMALPGEGDGGG HLDSEQEAPRPMNPNGDLESR EAMVAFFNSAGANAQEEQRVC CQPLAHPVASSQKKPEVAAPAP ETGGESVCGETHQALQGAMKEK LQUESTSARGQCQRRSTGRGGHR QAGPGPGGDEMLCTCTQVSS AGRGMGMLTVVLVSLMMLS ASFSTWCMRSISSCHCAYSASHS SISVFWFPREYILASGSEMMNS
14227	44595	A	14310	3	564	SLRVSLKAVVDRAGSRILSYIA GLGVDLGFGGGSRVAGGIADL GRSGGGKATRSRRGSRAGGGR LRSRHHEEALQLRETPGGAPE\ PMDQEYAGPGYDIRDWELRKI HRAAIKGDAAAG/VWSAAMTRR FRDL DARDRKDRITVLHLTCAH GRVEVVTLLSRRQ\NDICD\N* NRTPLMKAVHCQEEA
14228	44596	A	14311	515	778	GQAQGTGDREGAVLFTARAPD QCRP*SCSSSRPTASSCPLGHSC SPGPLCTHLPLQGPPQAPTVP ATATCWFSWNQCRCRAVSSYP
14229	44597	A	14312	411	608	EAEIP*TGLPGHSRPPGPLCTHL PLQGPLGAAAWVPEAGLQV TEAAGAARAGCSAHKPWKRRK
14230	44598	A	14313	2	338	
14231	44599	A	14314	1	390	

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14232	44600	A	14315	237	488	PWKTLDSSAEILRGVSESSAV TLHCMEGQAVGPRQVKRIVHC *ASSA*NPHAMLLLQNR*LALC TSVPQGA AVLCCGGWDPGN
14233	44601	A	14316	358	616	
14234	44602	A	14317	13	1155	IKLPPPGCRRRGGRHRRHRYRG RAEPLAPRRRLPPAPEQPRARP PASRFLKNTMSNGYEDHMAED CRGDIGRTNLIVNYLPQNMTQD ELRSLFSSIGEVESAKLIRDKVP GHS LGYGFVNYVTAKDAERAI NTLNG\LRLQSKTIKVSYPARSS EVIKDANLYISGLPRTMTQKDV EDMF\SRFG\RIINSRVLVDQTTG LSRGVAFIRFDKRSEAEAAITSF NGHKPPGSSEPITVKFAANPNQ NKNVALLS QLYHSPARRFGGP VHHQAQRFRFSPMGVDHMSG SGVNVPGNASSGWCIFIYNLGG DADEGILWQMFGPFGAVTNVK VIRDFNTNKCKGFGFVTMTNY EEAAMAIASLNGYRLGDKILQV SFKTNKSHK

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14235	44603	A	14318	1	2340	MFVWRNVEGHSAAVFSWYSIP FLTPPCSHTRPSNLPVTQWPPTRENNLPSWQPLLMSVHQAQSLS ALRKEQDSSSEKDGSRPNKSDK DHIRWPMGAHDLQQAAPGPG GAHQGHPNQDNRTVSQMLSER WYTLGPNEMQKYNLAFQNVE ARIRYVIVRGNEQGFFRMHHLR GVSSLQLGRRRPGPGTYRLEV DMITIDARYRCSGLRSPDPDH LKSVDLHRNEHFFLQKARWEIH LVLQATPSQIQLLHVAFVLAKQ PLRCRKQTLFLISVVGTKENK ASEGRNPVRPLRGHRWLPASPP AAEHFAGGADRKSRLSRAPRSA ATATPANEQRAVADVQWAR ARGGRVRAAGRSGSCALRRSR CRRRRRRHRRHRYRGRAEPLA PRRAASGQPGKLRARRGINCNA SSIPMLQVVRIKSISKHCQMAR VAGEGSLPLSHAQLTHCVFGN KQVQRTIAYLPPQQQGVQGF KNTMSNGYEDHMAEDCRGDIG RTNLIVNYLPQNMTQDELRS SSIGEVEAKLIRDKVAVGLLSL CVPIRNVEIVASTSWWSLPLAP YVPRGIRRSQPSTLMDDLSCRS HQAAPFTASVLLYISGRVKAH TAAQGFNHIPEGVSQEAGSG WSQAWKDGWLTNVFMFSCTG HSLGYGFVNYVTAKDAERAIN TLNGLR/PPVKNH*GRPLQLGFL
14236	44604	A	14319	701	1050	LIVHFCLQVGCGVGNVFPILQ TN/NTNSEYDPSRCFAFVHDL DEEKSYVPKSSLDIIILIFVLSA VPDKMQKAINRLSRLLKPGGM MLLRDYGRYDMAQLRFKKGIL KVLNPNH
14237	44605	A	14320	701	1519	LIVHFCLQVGCGVGNVFPILQ TNNDPGLFVYCCDFSSTAIELV QTNSEYDPSRCFAFVHDLCD DEEKSYVPKSSLDIIILIFVLSA VPDKMQKAINRLSRLLKPGGMV LRLDYGRYDMAQLRFKKGQCLS GNFYVRGDGTRVYLCHTRCNW TRFSPTAGLEKPKPVDRLQ VNRGKTTDNVPGLDVQILQAP SVQHQLRGYLLPTRCKPVVVS GLFLKKKIVALGVV/RCL*SQPL RRLRRGGSIE/HQQSNLGKIVRD PVSESNDKIKRI



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14238	44606	A	14321	756	1334	PGKFLVMSFLDPQPPTTRILEVGC GVGNTVPPIFTNRTMTQDSL VYCCDFSSTAINELVQTNSEYDPSS VFVAFVQGPV**RESVTQCPR AVLDIIILIFVLSAIVPDKMQKAINR LSRLLKPGGMMLLRDYGRYD MAQLRFKKEELDTLFTTAGLEK VQNLVDRRLQVNRGKQLTMY RVWIQCKYCKPLLSSTS
14239	44607	A	14322	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
14240	44608	A	14323	1	5796	
14241	44609	A	14324	1	2721	
14242	44610	A	14325	1	3438	
14243	44611	A	14326	1	3306	
14244	44612	A	14327	1	2364	
14245	44613	A	14328	1	2091	
14246	44614	A	14329	1	2334	
14247	44615	A	14330	1	1986	
14248	44616	B	14331	1	2559	
14249	44617	A	14332	1	1671	
14250	44618	A	14333	1	1845	
14251	44619	B	14334	1	2055	
14252	44620	B	14335	1	1554	
14253	44621	A	14336	1	2559	
14254	44622	A	14337	1	1714	
14255	44623	A	14338	1537	2204	

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14256	44624	A	14339	2004	3751	YQSLAETQQQKKNFRPISLMN IDAKILNKILANRIQQHIQKLIH HDQEGFIPGMQGWFNHKSINV IQHINRTKDKNHMISVDAEKA FDKVQQHFMLKTLNKLDDIDGL EVLARAIRQEKEIKGIQSGKEEV KLSLFADDMIAYLENPIVSAQN LLKLISNFKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTI ASKRIKYLGI\KLTRGVKDLFRE NYKL\PLIKEIREDTNKWKNI PC SWIGRMNIMKMAILPKVN\YRF NAIPIKLPMTFFIGLKGILLSSY GTKKRAHIAKTILRQKNKAGGI TLPDFKLYYKATVAKTAWYW YQNRDIDQWNRTEPSEIMPHIY NYLIFDKPEKNKQWGKDSL FN KWCWENWLAICRKLKLDPFLT PYRKINSRWIKDLNVRPKTIKTL EENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTKWENIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWVKDMNRHFSKEDIYA AKKYMKKCSSSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRC WRGCGEIGTL
14257	44625	A	14340	519	1286	LNLEERAFRHKSSEHLPHLKVH FRHSSCGIKTKSLLHVSPPTLIF PYPPLWGNPSN*ARPPCSVHSG PYPQGLASIIAHGSPGNVRGVH V*INDSEGGISRPSTASHKETPR PPTPARHADLAATRPSLTTSPTS \GAGPRA/PSRAGPSVGGGLLRP SGRAPRAEVALPAGLSPAGLAG PPPSGRSTGALPPAAAPTTS GP/P ASTPPNAPAGHTLSSRS PHRA ARPPPHCGAEWTGFTMRPSW RISQS FIVKDS
14258	44626	A	14341	482	700	

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14259	44627	A	14342	1368	2416	SSMTQSSCPMTSYLKSKEFGEPL MPSYTNPTETGVSKLVNKTQVF TYAHKGVPVSIYFDACQAAHLSK LNNIWT\SVKI*DKKESASRATK AITEESKKECPDCDNQWTTHEF NQHLYTGRAALFASQEEKIGYT TGTCYPLNLTILKPNMTFWTKG HKGLLTDFDQAGALLGLGIPLVI TKKTQRTQVQLSPIQQFRFYKS FNEHFNSEVSKIQIPPISTENLFV QLAKSIANNLGVTSYVCGGA NMRDQWPWEARELMLQDNFT LPEFVTKFNANPSVWLLRNPIIG KYCIACWGKSFQNQIGETTCLG QQYFEESENRTQWRSFIDDSS\G HFNPFLLQFPTLNQSWYQLE
14260	44628	B	14343	1	1071	
14261	44629	C	14344	89	283	
14262	44630	A	14345	244	315	NPKGQKDREAPLSRSVFVLKIKI KRAFALLHGRF*PSTPAASASP ASKSPRGSGKALASALFYIVQL TK
14263	44631	A	14346	1228	1656	QVYRPSQTPHLALSPERVAPGR RAAGRLAPEARAPRGSP/LPPHR VSEKTIRVVVFHPGARRAGGTP PRAPRGDTGGAPGA\PTYSTPL MSLHRARLESSPTGSSFPADSA KPVPLAVVSLDSR*GQWESRSS IHA\VTN*MTRH
14264	44632	A	14347	2	705	GSWPGLDDGSATRILACPWPGL GDGPAAPKANLPLVRWKPQCF RGEGL*GSSCFSATLLTGLDLW ACSSSRSTASARLSTYPSAFTSG WCSSLGPTEEAPGSWINCPLAG ILGAATSPKPSAIPQASPEVSLD AEDTGMKP*DSA\GPPGPARGL CGRGCGLSPACMGLRP/PSPPA QSPSTALTSLTSPFHPPRKKW SPPSAPAPSAPAPASLTSPAP PAPSPAPTAPAP

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14265	44633	A	14348	367	1174	WVRGQPSQSQLDLLACSTPTS* WPPGRAPPPPLP/PPPPLPP/PTP ASPPLLHPPRRAPPPVP/SFTP ASPPDPVPRPTKALTGLP/LCP LPCMGR/PFVPYLGGLLPCLGP DFSSL**SPGGWDRPVRPLGISQ IPE\PLTMGL*MQ*IPP*PRFQG HYA\PLPPLQTLCSVKTPGRNPR GLPMHKILQPQNPSQPPCELPQ AHCPTTPPPKQCPA\AFSILPVT FADKDPGAAPEGTVKAPMPTQ *EL*PLRPREHRVLSGPTAGQT
14266	44634	A	14349	332	988	RRAGTPASWGHNGARAKTPSR ACACLGLYPIHQPTARRAPAAR SHGPGPPALPRKGAAHGPRSVS HHPLRCSRSSCLAWPCLHHPQ PLHCHPHRHWPKWHPHPLAPH PLLGLHPRSRPQTPPWTS CGPSR RLPTPSGSWPAPFDRDWPN*AR PSALCCPFCQEPQLTPCLHLCPH PHPHRHLPGLSCPHRPPRWRSP QSPCPWWLLWWTGQWWQPGE
14267	44635	A	14350	190	718	FVLQLPPAPKSGLGWRGSPPPG QFSSSQRTGTVRGRGRCAEPRG SLPHPT*GNNK*HGNWMGLGS QGL\GRQPGEDKH CYQR/IGVG GAHLLRPPHQRI RSLTSTGSGCS HPWSRELGCSDGQRASAPLA LRQAWGEGLAGRNHTIVPFHG DISIAPRLLPCRETLFSALCGGES
14268	44636	A	14351	1	486	MKGEVSCKQH QDALQQVLWA MLQDADKQVRRAPGPVENENH CDFVKLREMLICTNMEDLREQT HTRHYEL YRRCKLEEMGFTDV GPENKPVRVLLFKSLSDSKRVK YDEEWIRLPVE/MKY/MLERKV TQKQP*VPLVFVSWRSR*ESLR REEENQQCHVLEL

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14269	44637	A	14352	1	2380	MMWSVLLQPVVLA AVERQGE ALEFLIGVPESDGENGTKLENT LQDIIQEDFPNLAQAHVQIQEI QRTQPQRYSRRATPRHIIVRFTK VEMKEKMLRAAREKGRVTLK GKPIRLTADLSAETLQARRDRG PIFNILKEKNFQPRISYPAKLSFT SEGEIKYFTDKQMLRDFVTTTRP ALKELLKEALNMERNNRNFFG VTFAFFVGGQSLGKALQETSIPF LREEDLEKTSILETGNGDWEAT RGLPEECAGMRERDCQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLGLIPTYDISSNIYLISKSLW QANFRLNSALAQSPAITNFQFR GHSLKTLDLLTMKNLDSKVNI PVIKADTVSKTELHKFKIKFM SELVSNQVQIYQFPTDDDTIAK VNAAMNGQLPFAVVGSMDEIK VGKMKVKARQYPWGVVQVEN ENHCDFVKLREMFICTNMEDL REQTHTRHYELRYRLQLEEMG FTDIVAPKNKPASVQETYEAKR HEFHGERQRKEEEMKQMFVQR
14270	44638	A	14353	105	328	
14271	44639	A	14354	107	676	IRPDSLPSASPAQDFYAASSNTF PA/DRWSALTKIYEDQTSNIPL SQ/TLIQSKALTLFNSVKA EKDE EAAEEKFEVTRVVHIRGLIDGV VEADIVEALQEFLISYVMVMS KKRQALVEFEDVLEACNAVNY TADNQIHIAGHPAFVNYSTSQKI SRPGNSDDPEREQCASLYHPEP HLFDHHGCSLHYR
14272	44640	A	14355	221	648	LDWLRRVVGIPSLRWTCATLV GTRRAARHRCVNVWECGGLKE ITY*SVEGLCRA/EKPKPLALLE ETCKLPERQVVNAKEKFLEENIK SATPVNT*MIRKRNCHITDMEK V*AVWIEDQTSNHLPLSQLIES RALTLFNYVMA
14273	44641	A	14356	122	317	

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14274	44642	A	14357	338	489	WLGQN*RHGKQPGPGVGHVGT TVWS*PHSPACWAPAPQGPAPT GEEGCHF
14275	44643	A	14358	1	459	RPVWRNSQPPTAAAYRWASGR MWSTSFSRWNKTPSGKACSSS DKGPPMAQVPIPQRNVPPPTK/ QPLVLCHGEAPDFSRPPQHRPS LQKHPSTGG/PSHSPLPTSAPSSR AGLPPLAMTDLTSGWRLWTP QPFRLLPGSCREGTILLCSVMD
14276	44644	A	14359	609	2077	GLKAQPSSSRGHSRGPACAAA PASRVHLPVTFCEPNSSPCPHC TGGWGGRGQ/PACAGNPTASSP CQIECPALRSCLHALMDLGSPQ\ LRGAPRTGVDPRLHLLPQPAL SSPPVLLRGPLLRGTCPLAARQ GQSPPAPGLLGHPGSHRGRLLP AQGGHRLPQPPGPGRRRRAPQP DPRRPGLRAAAAASGPGLAAWG AVRAAERPGSGGLPGGAGPHH ARAQGPRAAPPAAAAAGVAP ACGGAVPGGHPHRPGGEAALP AHGLPAPAAERTAPR\QPCPAC GLIARSDVHHPVLPP/LSGPAP APGRLVGQLGVRGAPSSPVPH ALHFPRAQP/PPGKGITTSQTQ PAGSPSPCMPPAATPGARHPP GSA\GHRAGV*GHTGPCDPHGP GHHGHAQLL*/DQAAVGVRGP GPWALSGMSQPPTLPTAGHPA PACGVRAFQDGTTPPRAKPAL/ LSDKGPPMAQVPIPQRNVPPPT KHPCPGPQSSTWMRQ

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14277	44645	A	14363	47	1250	EPRPSRSSGGPQLGQGLPRPMK KIPGSSAKTAGPLATRPEVPRAP *SAGRQPWFQRPWGKRKGRKT *NHGSPGVKP/TPGPLNKDKGE KEERPRQQDPQRKALLHMFSG KPPEKPLPNGKGSTESSDYLR SVTPGPWSFSP\QVASGMPVH TTKKPA*APPQVL/EPKERQTGA AADMPQPAVRHQGREPLL VVK PTHSRPEGGCREVPQAA/SQNPR PAPGLQTPGTRQTS SVTPQPCP PAATHSLGLGSNLSFGPGAKRP AQAPIQACLNFPKKPRLGPFQIP ESAIQGGELGAPENLQPPPAAT ELGPSTSPQMGRRTPAQVPSVD RQPPHSR <del>P</del> CLPTAQA <del>C</del> TMSHHS AAGHDG/DPASQSALPETGKRT LELQPPGGPLISLS*EAGSLSRSE PSCVREV
14278	44646	A	14364	23	714	EAPEIPRQNRMTMKERP VWL PHK*IHPNVAKWSRV PVQVQK NPQFQE\PTPEFIPVPGTSPEAAG FWH*GAHDS PGTRDRSEVEPGR GHPHLGPRDSAAADPGEHSPCD CP*ACPEVRRWPA\APVQIQYIIP SVDDFSLEFHAQDGD <del>S</del> DMRRE NVPFSPAEEGKAAPLYQQPLMI PQANHMAGISPS/SPTAAEFQHR DVHHRGPGTRDR <del>T</del> HTETGRVC PHPVPTDSPAL

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14279	44647	A	14365	3	1869	ITTVAPSRPASSDCESDGS*EQD AGPGSRMGPEK*AGPRPTRRVG RWSQTHSQTDDTSGAVVPEYP SDR*YAGGRGPG/PGGPTVHP* KRRS*NPQETKMMARRDPKSW AKRLSPV*PRLAALLTSASPSCP LEPRVLPFRVPPSHGLCEGTSYP NSPGT*RPPCRSSAKTAGPLATR PEVPGAP*SAGRQPFQRPWG KRKG\GKPETMEAPG*SQPGAL EQG*GREGRETKATRPAEEGSP PHVFRETSREAAAEWKRIHGVF *SSEGHGP*FPFSFPSAGGNRGT PLSCLLGVRDSTILPGCKRANA GPHNQ*EAARGPCPR*\SAAE MSGRGSVLASLSPLRKASLSSSS SLGPKERQTGAAA/AHPSACSQ APGPRASPRGEADTQPPRG*LP RSSPGCLQNPRPAPGRQTPGTR QTSCGDL/SSPARQPHTAWA* APISASGQEPRDLPSSDSGLPEL PQETETGSLPDPRKRHPGR*AG GPGKSPTSASRNRTWTKYVAP DGQEDTGGAQRRPAASAQQT LPAYCPGLHHVPSLSGQP*WGP ASQS/GSSGDWKTADAGAPASW RPPHFTLLRSREPSSLRALMCQR SLRLPVFVSHRASSMRTFRFPPP QRTAILTWS
14280	44648	B	14366	1	1519	
14281	44649	A	14367	312	1326	TTKTGQDKDRLEEFSMQQLSGS KRKMSTQPRTEL\PPNRHTTTTS TTPATNTTCTATVPPQPQYSYH DINVYSLAGLAPHITLNPTAHP QLKQCVRQAIERAVQELVHPV VDRSIKIAMTTCEQIVRKDFAL DSEESRMRIAHHMMRNLTAG MAMITCREPLLMSISTNLKNSF ASALR/PDGSSAIQL*SND*SCS WRPKLYDAFWDLSSLRV**PSR PEGEGRVSSSEGMGESLPFSSSW PRQYQSFLCICWTDAPARNTED R*SHNKVLSSVY*NVC*NQLPC SG*AAQSCCQSHHDPSQVLSQ PGCLCSTHCTARETLRGGHQC HKD*SAEQGL



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14282	44650	A	14368	2	1120	PEPEPGARGGEQLNEDFEG*VA VPTCLHCPALSRQTQSRAIQALT VRRGEATIRPPPCDDTKGGHRF LNELIKVVSPKVGAPSPSSDLPC RMWGEERGWTVGLPEEVKIAE AYQMLKKQGEAHRGWGATRA CLPLPHHERPKNVIFEDEEKS VRLQGGTYGDSEPRWGSVSGI KEMVQE/DSGRAQSTGRRRDG GIELGH\NVKLLTEMVMSHSQG GAAAGSSEDLMKVHLPPCLPHS LPTPQPTRLRMRPTLFRLASDT EDNDEALGEPRAGAEVRSPPLP PPPAPVRGEEVNGDATAGSIPG EEVAGELGGHPSGWGRTESYP AMPTRPGEQASPEQPSASVSL DDELMSLGEEGARPGGGRAQQ
14283	44651	A	14369	1	432	GTRQEVTAGVEPAREWQRRLM EVQWGLERAPYCIQHAPR*RRS PARPGTQSCGLGACWIQ*GALS SPHCTISIRRCHSLAGSTPAVTS CLV
14284	44652	A	14370	16	471	
14285	44653	B	14371	66	206	
14286	44654	B	14372	234	390	
14287	44655	B	14373	207	427	
14288	44656	A	14374	2	572	FLLERAPYGVGFSLLPGLWLGS RAGVGRHHDKRVGLGRAPTWS LEGAVSSM/TPRPQLCVP/WPC WGPSSPGG*QQLGQLSCSYSLV DR*VALLWFWMLVGSPLVKGH CPTPWSRFVDFSVPLATPPGIVY WGLFAVFLFSHLLPARPGEQMS ACCRHLHAPSSPLLTLDSLIVY SCNSQGKLVRFPPGD
14289	44657	A	14375	175	499	KQNKSMGRKSQGFVASFGNHL YCTASCGMPASSTSTQTWPRVL PLHSQ/ESSHGGCSWRGR*GP RPRPHKTPVPMVMDSTARNRA RRELVLAWCKSPLATALLVSW DK
14290	44658	A	14376	408	625	VFGEQEVFGYMNKFSSGDF*DF GAPTTLSSEHCTQCVVFYPSAP SFPFPVPKVHCVIPHSVLPTYE WEHTM

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14291	44659	A	14377	1263	1812	AGDAAPEDPAGRGQEDLYDEE LPGWGLCIPHPACLQPCHA*VT KAG/ARVKVILPS*DTQRTKDIL KAGGG/PSSIHFINSAHGKPAVI VRPRGIWVLNTTPLSGQWGPYI GVYTAATVDMKSLGSGSLGLQ LALPLAASWLGVLTAAARVFG EQVVFGYMNSSFSGDFWDFGA PITRAVYTVPNV
14292	44660	A	14378	1	693	
14293	44661	A	14379	2	1299	WDYV/KRPNLRLIGVTESDGEN GTKLENTLQDIILENFPNLRQA NIQIQEIQRTPQRYSSRRATPRHI IVTFKAVEMNEKMLRAAREKG RVTHKGKPIRLTADLSAETLQA RREWGPIFNILKEKNFQPRISYP AKLSFISEGEIKSFDTKQMLRDF VTTRPALKELLKEALNMERKN RQINETENQQGYPGIELGSAPSG PNPLFCRHLQMSVDGRHLQNSP PQINRIYIFLAPHHTYSKIDHILG SKTLLKKCKRTEIITNYLSDHSA IKLELRIKKLTQNCSTTWKLNH LLNDYWVHNEMKAEMKMFF ETNENKDTTYQNLWDTFKAVY RGKFLALNAHKRKQERSKMDT LTSQLEKEKQEQTHSKASRRQ EITKIKEELKEIETQKTLQEINES KSWFFERINKIDRPLARLTXXX REKNQIDAIGN
14294	44662	A	14380	2	383	
14295	44663	A	14381	1	1536	
14296	44664	A	14382	2	1118	REHLAEGMAVGTASADLNISA CWLRRREQISQHSARALLRDRL PPQENSSWHPAGAPLGRNFQRK EQAAIFAVLQPPLVIPRKTGSGV DLEQTPADLQKRGLTVTRKTN KQKAIASSTERTPTQKPPFKSH QHQRPNVDKSAKMRKNQSKK AENSKNQNTSSPKDHNSSPAR EQNWTENEFDELTEVGFRWV ITNSSKLKEHVLTQCKETKKLD KRLEELLTIITSLEKNINDLMEL KNTAGELRDAYTSINS*IDQAE RISEIGDQLNEIKCEDKMREK\R MKRNEQSLQEIWDYVKRPNLR LIGVPESDGENGTKLENTLQDII QENFPNLRQANIQIQEIQRTPQ RYSSRRATPRHIIVRFTKV

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14297	44665	A	14383	1	1154	MLPILGSRHPSSLGQARKLDYR PSKSQCLEPGTTPRACLVLYTLV AKLIYNDYFIHYFAPRGLPPME KNVVVFVIDISGFMFGTKMKQD HNFSLAREQNWTENEFDKLME VDFRRWVITNSSELKEHVLTQC KEANNLEKRLDELLTRITSVEK NINDLMELKNTAGELREAYTSF NSCNDQAEEKISEIEDQLNEIKP NLRLIGVPESDGENGTKLENTL QDIIQENFSNLAKQAN\VQIQEI QRTTPQRY\SSR\RATPRTH/IIVRF TKVGNGREKMFKGQPGGKGR\ VTLKGKPITLTADLSAETLQAR REWGPINFILKEKNFQPRISYPA KLSFISEGEIKYFTDKQMLRDF\ VTTRPALQELLKEALNMERNN RYQPLQNHAKM
14298	44666	B	14384	1	1554	
14299	44667	A	14385	1	909	
14300	44668	A	14386	2	207	DIMSCILQNYNRPPVMALAIPIA VKFLHRGNKELCRNMSNYLSL AAITKAD\LLADHTEVIVKSILQ
14301	44669	A	14387	496	1207	PLITGTHDSGSVESQLIKLILTM HQLFRLVLGQKDLRAGDLF\S *NNSEIEDSLTEALEQIKIISSSSD YQTNNNDQAVVEICITRITTAIR ETESIEKHAKALVGLWDSCLEH NLRPFGKDEDTPHAKIASDIMS CILPELQPTPQSMALAIPIAVKF LHRGNKELCRNMSNYLSLAAIT KADLLADHTEVIVKSILQGMVR KLSLGTCTCFGRYLKVFSSSIYGL WEARPRVLEAN
14302	44670	A	14388	219	448	VSLELCLKTTGPDCGCQTSQTP PAAAYHHL/PGAGLPCGPRLPA LCCSCPMGARPL*HHR/DPSRF QEKTHLYLPSSH
14303	44671	A	14389	542	1365	GTEGVMANRSQEGNGGGSWR AKQVVVTVPF*EQSLVIMLWR RGGNT*QRPSEGTSRSHICSFH MSRHCQ*CKCLLKEP/VSAEAR DALDTKTHFPLAMIPSYLLNG NIGELPEGPAGGCAQNPGLWAS /RGPARR*RSQASSPEVRWPPG QCGLRGRPCKKE\PRHPWSRP CASPYRGAGGQRLRRACSAAG RKTPDRRLPEPTRGPVSQRAV LGKLRAAAGHRIPIGDLGDGLS LGAPPAGRHLHTVLPRLREFSP CEDALGIGEQQGKKRVT

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14304	44672	A	14390	3	723	PVLRRGIQEFAYIKALYERKFL VPKPIDYNRHAVDMELINGYPL C*IHHVEDPASVYDEAMELIVE LANHGLIHGDFNEFNILDESD HITMIDFPQMDSTSHPNAEWYF DRDVKCIIDFFMKRFSYESELFP TFKDIRREDTLDVEVSASGYTK EMQADDELLHPLGPDDKNIETK EGSEFSFSDGEVAEKADEVYGE NESERNCLEESEGCV\SDHLETL NK*RKTVYQKRVLMHGVK
14305	44673	A	14391	1	1889	MGSKVKEVEDDSQMSDLVRG MNAFSKTGSGGVEQGRGQGG TNGHIKKAKARDRDRRFKKT QRKVGNDNLQLPLRWTEQHAE THIMNFCSKNYNRNIPGKPRE DTLNEAACRGRLSKTARKLWS EAQDQRSFQATEMQAFLFSAK RIAAEKKTIIRRDLCISWGLL PRPGSQSVPAQIPENLQEQEERA KWLLNGRSKFFPQTSTLGKVT SNKTGVKEPELESRQPNLLKVE MGMKNHEIVPGSLIASIASLKH GGCNKVLRELVKHKLIWERT KTVQGYRLTNAGYDYLALCTL SSRQVVESVGNQMGVVGK\ESYI YIVANEEGQQFALKLHRLGRTS FRNLKNKRDYHKHRHNVSWL YLSRLSAMKEFAYMKFRTLEIR DYFYWVKINVLTPCSPKRGSS GEFVPCLLQLLLGFGDCWHSFG LWHITPVSVSMLTLLPSLLLVK QKKPTLDSRMGQFDFVVELQL YLCVLEREVIREYPPDGQIFGRY FDRDVKCIKDFFMKRFSYESEL FPTFKDIRREDTLDVEVSASGY TKEMQADDELLHPLGPDDKNIE TKEGSEFSFSDGEVPEKADEVYGE SENESENCLEESEGCV\SDHLE TLNK*RKTVYQKRVLMHGVK

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14306	44674	A	14392	150	1910	STPPGGPSVLM*STEEPGAGRS QPLCDDLSTRPLSCLGAGCCLW PAKRISAKEEPWYSSRSKDKKE KNYSSPETTTSGGCHSPGDSQY QELAVALESSSVTINQLNENIES LKQKKQVEHQLEEA KKTNNE IHKAQMEQLETINILTLEKADL KTTLYHTKRAARHFEEESKDLA GRLQYSLQRIQELERALCAVST QQQEEDRGHCLSSPDQNFSLFTI QSSSCREAVLHRRLLQQTIKERA LLNAHVTQVTESLKQVQLERD EYAKHIKGERARWQERMWKM SVEARTLKEEKKRDIHRIQELER SLSELKNQMAEPPSLAPPAVTS VVEQLQDEAKHLRQEVEGLEG KLQSQVENNQALSLLSKEQKQ RLQEQEEMLRQEQAQRVREQE RLCEQNERLREQQKMLQEQGE RLRKQEQLRKQEERLRKEEER L/TKAGKEAVGPGGEAVEEGGE ATKAGGEARALPEPQARQAAG RATVQLRGSEQREKERTAVGA ASKGAAGEARRGEGDAVHGHL SAADL*EGGAAQAVTAADPVR GPAAAAGSLGQSGAPRSCQPPE PTARDPAKPRGSPWRRRWRTT
14307	44675	B	14393	463	3755	
14308	44676	B	14394	175	1835	
14309	44677	A	14395	102	465	RAYCWAYIRLSCLTVILIAWCS QESALSEEEEDTTRPLETVTFKD VAVDLTQEEWEQMKPAQRNL YRDVMLENYSNLVTVGCQVTK PDVISSWSKKRSPG*WRKKCL GGTVQNPEEERTAV
14310	44678	A	14396	1	330	
14311	44679	A	14397	1	531	MLLNIPQHTRQSPRAKNYLAQ NVNSVKAWCSQESALSEEEED TTRPLVRLKHLFVSCILQCSYV LLPLTPEYQLNKFLYVVITMPN FDDFKLISIMFLQETVTFKDVA VDLTQEEWEQMKPAQRNL YRDVMLENYSNLVTVGCQVTKPD VISSWSKKRSPG*WRKKCLGG

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14312	44680	A	14398	1	539	MPTTTTREM TQNSSETIKNKNG KKQRKQRKNSKKNRRKQKDE DKTRRQNKRRHHKNDINPEEE RTAVRLKDGGAPAPQAVQEHD AGICSASGGAQETYILVEGKGE ASTSPGQSKGSREGGVGANETC SKKLYRDVMLENYSNLVT/VG CQVTKPDVYSSWSKKRSPG*W RKKFWEALSR
14313	44681	A	14399	322	1227	FDLKMSKCRKTPLQQLASPA SF SPDILADIFELFAKNFSYWKPL NNEWQLPDPSEIFTCDHTEFNA FPWI*RTP*NEVKKPTGVIRTW DEWHEHTCFH**SGE/ISFPHGR KSVNAELWTQAWCKFHEILCS FPLIPQEA FQNGKLNLSHLCEAP GAFIASLNHYLKSHRFPCHWSW VANTLNPYHEANDDLMMIMD DRLIANTLHWYFGPDNTGDI MTLKFLTGLQNFISSMGTVHLV TANGSFDCQ*NPAGDQRMVKG HCYFPSWNWLHLSKHTQCGNE FIFMTKKKQSLTAKSLPD TFS
14314	44682	A	14400	3	183	KRKEITNSLDAAASRGTVPAAL AGVQYLEPRAGAAGRLGGAG WGRVPRPGSS/SSL SLVGR*GW CPVLRTQGRCCRPPGGCWGA RPAWELLSL SLVGR
14315	44683	A	14401	21	399	IWNSAPTASRRPWSLAPGSPRS TWCVASTPPCAPGKAREPRDRS EVPPATAPAVLQSHWPCPRSSR SGSAGNCVGP PHSWAPGHSQH LTPGPGHGGPRGP\CWLLMQT AWPALTPPGAMPGEAEGQ
14316	44684	A	14402	59	478	RCSQPWHCPAALAGVQYLEPR AGAAGRLGGAGWGRVPRPREL LSL SLVGR*GWRPQE QDLFPH LRRPVGTRSESTWGNRAGAAT W/RAATPSPWRT*NGTKSKQW TASGLWQKGDGWD*GSGKPPL PLSVPAGQRLVPVC
14317	44685	A	14403	1150	1319	PRRLPTACTP*RS/CSRYWMVP KSPRMTMMMWTKLARMGAQ W*PRKSNACLSRAASS
14318	44686	A	14404	34	304	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPRRAPPPAPRRVPST TQ/EARRSAASLLSPARPRAHRD GTNNSRRATLRAVTLTARVRG F

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14319	44687	A	14405	1	360	SSLSYLPAGQGSGPAARHA*A SHPLHGLLCGPSLPNEHRPLLQ GAQSH*PPKG*GVRAHGVGLA GRSTCSP/ECGIH*VKPAGLLSFL GPRCFYEL*QSPRRSAAASLLSP ARSRAHRE
14320	44688	B	14406	80	1166	
14321	44689	C	14407	1	543	
14322	44690	B	14408	1	930	
14323	44691	B	14409	1	1473	
14324	44692	A	14410	388	606	
14325	44693	A	14411	1	798	
14326	44694	A	14412	687	832	
14327	44695	B	14413	1	1218	
14328	44696	B	14414	1	642	
14329	44697	B	14415	1	807	
14330	44698	A	14416	554	724	
14331	44699	A	14417	216	494	
14332	44700	A	14418	1	3408	
14333	44701	A	14419	330	858	VPSLDGQRGLELDTECRLVYLQ SLS*T*RFSTSSPEQLDTECRLV HSQTLCT*QGADWCYKP*VGL QVELPASPA\WLAFLSPWVVN GTGRHGAGGGARRGGSGCTGA HGVGGRLRHGRLQVPSPAPWE GSCSLPSPIGPPFKRAHSVLQKG SSTLMVGTCASSPKVVPFHLLS
14334	44702	B	14420	182	1513	
14335	44703	B	14421	1	1608	
14336	44704	C	14422	1	1830	
14337	44705	A	14423	167	433	LPSRGAGLGTCSPCLSLPPTPW APVRSEPPRRAPPP/GSTVSPIN HPRAEECERMARDWQAAPPAA PVRDPLGEASWAPEFFGSMLPL
14338	44706	B	14424	32	352	
14339	44707	B	14425	103	451	
14340	44708	A	14426	158	921	LPSRWAGLGTCSPCLSLPPTP WAPVRPEPPRRAPPSAPRRPVP RPPKG*GVPAHGAGLAGSSTCS PDICRVCRSEGTPEKPLYHPCVC TGSIKFIHQECYSPDMPSRLPIQ DIFAGLVTSIGTAIRYWFHYTLV AFAWLGVVPLTAWHQLLDLGS TLNPGCSHLVILKLTSTKTLFP NKATFILVVLSDQKTLMEDPR MEDKWKEDRFSPFNSEALEITL GERHRPQTASVIPWFCSSRHVL NLGKINFEVD

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14341	44709	A	14427	242	515	IQSVHWCIHKP*ARHRVLIGVFT IPELDIKVLHVPTRLRNPA GFTH WILHRDCRCSCMPVLRHAPALL SPWVVNGTGRSRAGDSTHRGG SG
14342	44710	A	14428	759	988	TWPRKPLFPPRPLGL*WEGMLQ RSLTCPGDIFPIILVISIWL LVTY ANFGSWL*FLPRKWVFPFFIPVP NKFLIFI
14343	44711	A	14429	130	788	VLQLIKAVWTPRTQEPSWLP PV NPARELQVELPASPAPCARTPQ LLGGRWDWAPWSRGWRSFGE ARAAQKPMEGVGGSGMAGCR SRALPHGKAAKARRAIEHSTGG LALLGDPVHSPQPLARVLSPLP RASRAGWLLRVRGPPSPRPPGT PAGRQAPHAAPVPARASPSTPP/ CRAERVGSSPGQPRKGLPQCRG EAEGLLKCHQSGSPGRGEELW HSR
14344	44712	A	14430	108	1686	ANRCPLPHPGTGAGRCLGASA GRAEEAGV*GPLHEGLGYRPA GLFLRADTGHRTPGWGGGGGG AGGRGGAAPGPGVGATRRFAG RRGCARHGAAPVAAVR\CCERL VLNVAGLRFETRARTLGRFPDT LLGDPARRGRFYDDARREYFFD RHRPSFDAVLYYYQSGGRLRRP AHVPLDVFL EEVAFYGLGAAA LARLREDEGCPVPPERPLPRAAF ARQLWLLFEFPESQAARVLAV VSVLVILVSIVVFCLETLPDFRD DRDGTGLAAAAAAGPFPAPLN GSSQMPGNPPRLPFNDPFFVVE TLCICWFSFELLVRLLCPSKAI FFKNVMNLIDFVAILPYFVALG TELARQRGVGGQAMSLAILRVI RLVRVFRIFKLSRHSKGLQILGQ TLRASMRELGLLIFFLFIGVVLF SSAVYFAEVDVRVDSHFTSIPESF WWAVVTMTTVGYGDMAPVT VGGKIVGSLCAIAGVLTISLPVP VIVSNFSYFYHRETEGEEAGMF SHVDMQPCGPLEGKANGGLVD
14345	44713	A	14431	1	427	
14346	44714	B	14432	8	323	



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14347	44715	A	14433	20	1050	FNLVYMSHVSDGALSESASAT AASWPPHGFLQHFVPGRPQVPI CLYLLGQKTG*HMAPLLRQVT GSIPPKTPGRGIRNMKRNEKR RYKTLMADGWELHQELSLGRT SSLPPYKGGPWSPGFQKVSKG ANPVEIKRGVMLAVDAVIAEL KKQSKPVTKEEIAQVATISAN GDKEIGNIISDAMKKCGRKGIIT KISSVQSIVTALEIANAYCKPLV IIAGDIDGEALTTLILNRLKVGL QVVAVKAPGFGDNRKNQLKDT VIATGGEVGEVTVIKDYAMLL KGKGNKSQIEKCVQEIIDQSDV TTSEYEKEKLSIEKLSDGVAVL KSHPSFCTKIYPLT
14348	44716	A	14434	3	764	TTATVLARSIAKEGFEEKSKGA NPVEIRRGVMLAVDAVIAELKK QSKPVTTPEEIAQVATISANGD KEIGNIISDAMKKVGRKGVITV KDGKTLNDELEIIEGMKFDRG\ YISHPFINTSKGQKCGISRDAYV LLSEKKIS\SIQSIVPA\LEIAHAH RKPLVIIAEDVDGEALSTLVLN RLKVGLQVVAVKA\PGFGDNR KNQLKDMAIATGGAVFGEEGL TLNLEDVQPHDLGKVGEVIVTK DDAMLLKGKGDK
14349	44717	A	14435	1	3288	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTA SMYHGWWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVC
14350	44718	A	14436	2	422	

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14351	44719	A	14437	529	2484	WGINIIKKNKKAAPRAFGVRLE ECQPATENQRWQDLNVISSLLK SFFRKLPEPLFTDEELPLAPSFCE EEENGGRGGGSPRYRLEPMDT IFVKNVKEDGPAHRAGLRTGD RLVKVNGESVIGKTYSQVIALI QNSDDTLELSIMPKDEDILQLPA ERESGGEASEPPRVVRPEPSTRA LEPPAEDRGDEVVLRQKPPTGR KVQLTPARQMNLGFGDESPEPE ASGRGERLGRKVAPLATTEDSL ASIPFIDICVRPCAWLHALLDW MAQQRVLDMQGGSIGMGVSW DRELEEKGSEKGYDEPTSPSIDL QAKHVPASAVVSSAMNSAPVL GTSPSSPTFTFTLGRHYSQDCST SAHLNIFAGIFDISNDHLQVSTL ESNFTRIHLTHYTGGNFPAWLA WDAVPFSSDLLNLGVHVLETG AGTPFLGSACSSDGIASQMNTA GLPQIRDLPGHYETLKFLVGHV LKTIAHSEKNKMEPRNLV FGPTLVRTSEDNMTDMVTPHA *PLTRSWETLIQALQTGSSVTKR YKGKENPCGLTRSLRQCPTLST FLPNIWQDSAPWRPGVSGPVGD LKDSTTCSSAKSKGSWAPKKEP YAREMLAISFISAVKPQAQAAA GDAGAGQQHRRRLGAGGAQS LGRGPQRRGHQERS
14352	44720	B	14438	1	1473	
14353	44721	A	14439	5	694	VPDKWGWCLFMSRYLETAIRT AACAASPRYLNPGRCSAARGPS SQSPRPWWSGHKKRTASPGWG GQSAASPMPPSRSWPASVGGPE FRLSETPSRPFTLSGMK*GWQV HSWAPALFCSVMSFSPDTCCLC K*AHSQPCSPSPSTVILLRETSSN WDWQPEDLGAPKASASPPSTT RITRLRSSELQLRRLNPSDSCHR GFCFSFRCLLTPEHVLPKTVLRI QPGCKVA
14354	44722	A	14440	303	757	MAWKVSLRGRKVAGRAPSQLR WASPPSSGQSVKSLLPPARRL CPGPGVPARCHRI*GLGPGRG WRGEWRRDTPNPWEPPQPRSPS/ G/PNCAWSDGCPRGAPRRPRAL *AGARRAAPARI*VPWRGSAG GCSNRRLQVPAHE*TPTPFIRYL

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14355	44723	A	14441	1	534	RHEDHSEPTFLISPSLLCFLLP PPLPRLTPI\PAALLVPAVQRME PVLFLPAPGAAACRVWHPALPP PRQAAVSSSRPCY\PCVARSA PA GRVRAAGVP\PAPPSSSPRLGRV GGRSRSPNVVFRVRGAAPG/PG L*ISPWTP/PLNEAS*RQRGCPAS FAVYGGQEWPPQWPGPPRGP
14356	44724	B	14442	157	2143	
14357	44725	A	14443	258	4089	QLITCLSRPETGGKFEVDTRP VCPPSRARAARASAAVAAAA TLTPPTMDSFDLALLQEWDL ES LCVYEPDRNALRRKERERRNQ ETQQDDGTFNSSYSLFSEPYKT NKGDELSNRIQNTLGNYDEMK DFLTDRTNQSHLVGVKPGVPQ TPVKNIDEHFVADSRAQNQPSSI CSTTTSTPAAPVQVQSKRGTMG WQKAGHPPSDGQQRATQQGSL RTLLGDGVGRQQ/HSGQTSVQC GGGSPDPGEATCHGGQ
14358	44726	B	14444	1	1326	
14359	44727	A	14445	453	710	SQHFGKPRQVDHLRPGV*DQP GQHGETPSLLKIQKLTGRGGAC LW/QSQLLRRLRQENRLNLGGG GCSEPGSCHCPPAWATERDSVS
14360	44728	B	14446	32	290	
14361	44729	A	14447	244	426	
14362	44730	A	14448	69	221	QWRFCGIERGERWGD*KIGW LPCLCGKK*IWETFILFCTKKN SSALGSC
14363	44731	A	14449	27	220	AVILTAKICSFTPEPSKTTSPGG TNNRRATLRAVTLTVKVCST P*GSAASFLKSVRPRTHQ
14364	44732	A	14450	115	732	EPETRIDPLSWNSSQLPVAALH LPGMSSVGAGQAICNLCLGDL VSPSSLPALERTGPPPWNRGPK GRGRLPSL/TVSQPSLVIPPGTG KSEVNADRSRPPAYCSNLGRYS GPGPPSLVIPPGTGKSEVNADRS GPPAYCSNHFPSALP**RSSMRS LSLQQTSAWTCRHFHTSLKSR WRFPNLNSCLLCTCRPNTTWKP CLGACTL
14365	44733	A	14451	528	875	EHGYFQGTGLGQKGCKSGKPPG GTLKTLVTLREPGRLLQSP*TSL WVSERLP*YP*GDTGENCPKLS FHLRNLGPS*AG*RERPPQGGL YLPPQAYRLMQGSAFWPLFGY APSPQR

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14366	44734	A	14452	2788	3414	ACFSYIAFWRINTTSTANLSKES LTSTTSRSWVINVNIVIFCTDWL FYKWLLKNFPIYFYMIFPNQIT FHSMGSCAARASPTSTTPCSTA PSPIDHPRAEE\SSTRRTVGRQL HLQPAKICSFTPEPSKTTSPPGG TNNS\SALP*EL*HSPRRAASL QFRTR*YPYRYQSQGPESHF*L PLPLPSSIHDHF*LFHLQHTFQS HALLP
14367	44735	A	14453	662	1338	VLQLIKAVWTQRPLGGRWDW APWSRRWCSSGRLRPHRNQWS GWEAQAWGLQVPEPCPAGRQL RPGEKSSTAPVCTSCCRRSTA GPTGCPSTRDPTLSASPS*TST TSLATATASASMWAGSCTSIST RGSASLVHQALTWPGSGPASPR KR\TGSHVPA*AGVRWRAHRS QPQTPGLK*SSHFSPLSGWNYR HSNHPISQSFPHLSPLSIPQNH CHHGPFMS
14368	44736	A	14454	3	415	DFLFSEILPASQSASAILPALPA SHRCPCLDVPLPPEVPGPARLP VAAASVWRPVQHLSLLGRWA GPT*DRTESRETNAEVEADLPP LYAHGRLEPTAGPSGASAVLST SSEYCPGPHPKMGHRRVTSCLS TCQS
14369	44737	A	14455	659	818	
14370	44738	A	14456	2	710	
14371	44739	A	14457	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGLHDLKIVVL
14372	44740	B	14458	1	1338	
14373	44741	A	14459	83	426	
14374	44742	A	14460	93	345	APALCLQILLDCKSVNRNTRSF RPREVGIIQYKKGGGAAGKGG TGNAPGFLFSKDS*KDPTPLPP PLLL*GQRDH*IQLHQE
14375	44743	A	14461	1	1302	
14376	44744	A	14462	1	1174	
14377	44745	A	14463	274	1428	
14378	44746	A	14464	411	627	HCLSHFQNTGPRGDVDFQQEL FPVLMADIRKEERSHLCRSSRR TWTILDKS*IQGSRLSSKEQGW GWGTSRK
14379	44747	B	14465	1	1553	
14380	44748	A	14466	226	449	SLQPDI*CSGLRGSLLLV*PKSD
14381	44749	B	14467	1	2061	
14382	44750	B	14468	10	1099	

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14383	44751	A	14469	34	406	GGGFISLDTGSHHKSHPGGS*H ALGWVRPHTLNSP\PSQQPGNC GNPAWEC*GPHG/APSRWSCST PCRPSHPKVPAVRVAGPAGGCT PYRT/PTRRTPR*RPGPACAACDR P\LHPHCGPRGPAYPR
14384	44752	A	14470	623	1671	VLRSVSSWLPTSMAMTVLAPM LRAMSAGRLLM*PPSMSRCPSL GSHSGGR*PDS/GHAGAHVPPQ GAIFVDSHG*GGDICGHVEVRQ P/QGPQSAYPGRPDGCCG*RQT Q*TWRLGT*GPTQVPAPKSCS WPTPGPAASCGWRCAPPRTTLR *KSQWTCRPPGPRGPPPLMPL VLRCASSPWPRPRLAQQQWCS P*APSPSGRSRCAGPRAWRKPS RRAHAAWQCGAKRGGADSA GAGAPSTSCAYLATPRCAWGP HPPLGGAGLAA*GRAQPCSPAS APAGRG*APGPPGPQ*GCSRVP AGSARSASARRPSGRVRYGV HPPAGPATLTAGTLGCYPVRRP PGVPG
14385	44753	A	14471	32	972	QSGTFSTKNEGRITRDVYDGR GPRVGRCGTCVYVRYVHDRPH APHERARRNDGNTQRTGNAR PGTAMPTATTDQPKGRSTRHK ETKRGR TARNGKQNNPRK/RP RKDKRKQGSAGEGERGAGGKE KGQPRDTEAKGDRRTDFPPPNG VP*GQSKRGANIGGWFPPLGT PNPPLPGPQSAQVSGP*TPQMW MPTGTGCCGGSQ\SGSPPPWCV SP*PVAEALFHSST/PAPRHPSPP SSSPKHSHQPSTPPP*ISLGQGPC RPPKRRPAPDQPQVPRCPEPSC AYLATPRPTMRMQSACRGSAR SRASARRPSG
14386	44754	A	14472	1	3128	
14387	44755	B	14473	239	5474	
14388	44756	A	14474	542	781	PASIIMTGSISHITILTRVNRLN ASIKRHRLTDWQIR/IKSQDLSV CYIQETHFTCKDPHKLKIKGWR KIYQVN*KQKKK

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14389	44757	A	14475	724	1340	QLTLQGRRVAPR*PSRVALEQE/ CGYNALLRYEGFENDSGLDFW CNICGSDIHPVGWCAASGKPLV PPRTIQHKYTNWKAFLVKRLTG AKTLPPDFSQKVSESMQYPFKP CMRVEVVDKRHLCTRVAVVE SVIGGRLRLVYEESDRTDDFW CHMHSPLIHHIGWSRSIGHRFK RSDITKKQDGHFDTPPHLFAKV RSFYKNPHL
14390	44758	A	14476	1822	2226	KRLFTNRTRITPFVAINSHHHHH HHITIINTIITTTSTINSHHHHHY YHHHHHHHHHHQHHTTTTNTTT TNTTTTNNNTTTTITTTTTNTT TTSTINSHHHHHNQCHHHHH HHHH/HHHHHQYHHHH*HYQ HHHHHHYHHHHHHHHHHQ/ HHHHHQHHNQHHHHQQQH DHHHHYHHQHHHHQHYQH HHHHHNQCHHHHHHHHHQH HHDPPHHQH*HSHQH
14391	44759	A	14477	232	625	EGCCCIAIMVQKYQSPVRVYK YPFELIMALRKARYPRCCVTCS* TGGAQQVGFRFLDLPLSLCTP* CLWRTSSSNF*RKAAGCSGSRL QSHHFGLIPQPTAPKPWSSPLHI TKPQTLGQRDPGPRTRKRSK
14392	44760	A	14478	1	808	MPKTTACNVHTVTWASCENAD SDSTGLRHHDSCEDPASPGRS LCLVPHPTRPAVRGGRPAGGRC PAVPAEGPWRHLQQAQEGPKR LAGGLERLLENPVRRALPQGA QGHRAEPTEARPHPAPEHRRAG AAAERAERLESQPVGASAAAA SAASARIPYLVAVPAAGPPRHR CRRHRRGPGTSSGPRTALIRPAT ARARAGIVSEPTAPGATRARP WRQGSHPVAPSAP*LLRGPSIP WQIRPMPCTSHQTCSERRPSG RWQMPGSACRRSLETSSAGAG RAQEAGGRLGETSGESG/RAGL YLKELRAIVLNQQLVTRTQRQS IDELERRLNELSA*NRSLWEHP QLPQAQPPPGFLT*PSPLPALL GTAAAATAGAEHLQDHGQRS SARPLPAELASFQNEQLLAQ PEPDGGRATTTQSPHQHPGTL GVKANKEKKGPPGCCAAPGTP LQQESPAPSARES

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14393	44761	A	14479	1	831	MIRYFGDYWTQALLTLIPGDPK HPRGPPVKVG VYGGQGYINSL ALCHNFIWRELNRFSLLQDVPL VRYIDNIMLIGSIKFLGVQWCG ACRDIPSKDPADPMVLEVSAD RDVWSIWQALIDESQQRPLGF WSKSLPSSADNYSPPERQLLAY YWALVETERSTMGHQVTMLPE LPVMNWVLSDPSSHK/ANGLA GWSGTGKKHDKIGDKEIWRR GMWMDLSEWSK/D/VKIFVSHV SAHQRVTSAAEEFNQVDRMT RSMDDTTQPLYPTTPVIAQWAHE
14394	44762	B	14480	56	3476	
14395	44763	A	14481	3	591	DPADPMVLEVSEADRDAVPIS ESQQRPLGFWKALPSSANNYS FFKRQLLACYWVLVEIEHLM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQK WTA VALQPLSGTSLQDSSEKSSQW
14396	44764	A	14482	1	1275	MEKNDIDQSRRRKVVMENENV QLVRYGEQASDLKTATKFKSPS EVKHIRFIQQAFIGSKLLMRPW TTVTQKILSLKSAKIALSESLIPC RKRAEFVEKQTQAFIMQVSDL QQKVHAQPSQVSTVKVKALIG KEWDPATWNGDVWEGPDEAG DTEFVNSDEAFLPEATAFPSPEV GNDQTVWGLLDTGSELM LIPG DPKYYRGPPVKVGAYGGQVIN RGLAQIQLSMDPVGHRTRPVVS SPLPECHGTDILSSRQNP HIGSLT DITLVHYIDDIMLIGSSEQEV TIT LDLLVQAVAQAALPVGPYDPA DPMELKVSVADRDAVWSLWQ APIVTMRPERPIMNWVLS DPSS HKVGCAQQHSIIKWKWYIRDW ARSGPEGTNHSRRVCS/LPQVQ APSAR*ATARRGGQAASGCCCLF WSCTCFSNFDV
14397	44765	A	14483	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLREWFG*NHDASCP*TLD SKSFSFETRGTGSPCSSSLQTAYC GTLWIVQGV
14398	44766	A	14484	2710	3060	
14399	44767	A	14485	3	227	
14400	44768	A	14486	3	266	
14401	44769	A	14487	2	564	

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14402	44770	A	14488	2	503	FFFFLPIGFWRQHIPRLSVLLQHI Y*VT*NAASFEGWPEQEKA*Q VQAVVQVALPLGPYPADPML LEVSVADKDAGCTRL\QAPIGE SQWRS LGFRSKALRSSAENYSS FERQLLACYWALVETECLTLG HQVTI*PELPIMNWVLSDPSSHK VGHEQQHSIIKWK
14403	44771	A	14489	2	469	
14404	44772	A	14490	1	633	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTLDLLIHKRSKEAHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
14405	44773	A	14491	1	518	MTVDYCKLNQVVIPIAAA VSD VVSLLLEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSPLDITLVHYIDDI MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
14406	44774	C	14492	33	932	
14407	44775	B	14493	27	2457	



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14408	44776	A	14494	332	2158	RGYVFCSWKKTDGS/WRMTVD YCKLNQVVIPIAAA VSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDDIMLIGP RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCCHG GRDGGYAWAQQCRLPLTKAD LNTATAKRPICQQQRPTLSPQY GTIPQGDQPATWWWVDYMG LPSWKGQRFVLTGIDTYSYGYF AYPACNASAKTAICGLTECLIH HHDIPHSIASDQGFHMAKEVR QWAHDHGIHWSYHVSHHPEA AGLIEWWNGLLKSQLQCQLGD NTWQGWGKVLQKVYALNQH PIYGTVSPIAKIHRSRNQGLEVA PLTITPRDPLAKFLLPFPATLQS AGLEVLVPEEGLPFGDTMIPL NWKRLRPPRHFGLLPLNQQA KKGVTVLAVGTDLDYKDEITL LLHNGGKEEYAWNTGDPLGLL LILPCPMIKVNGKLQQLKPEAL VPKGVVFPFGDTTMLSLSWKL RLPSGHVGLLMPLSQQVQKGV
14409	44777	A	14495	1	3187	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYS LPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWVGDHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTHIATI KGSNEEDTDTPLFIGKVRTLEFP FVNGSAEIMLMPSNQQHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
14410	44778	A	14496	266	467	
14411	44779	B	14497	152	1245	

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14412	44780	A	14498	1	1445	MLRAAAGGQGLAAAGMGLCA RPAGGSQLP RERMKG NRACLP LPPAVALTKGREKPDAGHQGR STQMMRESERGPCTHWTEERP GRQLKILLQKQMRQNTLMAFQ VSWDGRNKEIGRTFPHATAPHT QQLIFAMKIKRTGVTVEPWGLF ETGQRIRPIQAAGL*LSSSSTTC VALAPLLTMHVKSLALLSAP/Q MGALSTITTITRRQTPAESHF PAARFHLLAPHSTLPPCCPGEP SESAVTVLCFAKGKTAQDAAV\ PTTSLTAAGHLAPRS*SSWSRM PVKVRRAPDSL PETS AHALPLT H*SWLPSASWGPASRALPGSEW VLKPVWQ/AITGPVSQITSSPGIP KPGPLQA*GSAHPQALGFSVL QIPLSNSPTSPMT PPLPRPKISNS SLPSQ/PPQALFPNRWTNSSSPV HVITSAAQ\PRTPREWPAVSFYR TTATTASLIPHLWAPPQEN*QTS PAQNGSTLPCMSQATFHFPSP
14413	44781	A	14499	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNWWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/TGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP
14414	44782	A	14500	1	346	
14415	44783	A	14501	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFS PKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSGNNRCRRGCGEIGTLLH CWWDCKL VQPLCKSMWRFLR DLADPAIPL LGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP

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14416	44784	A	14502	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSL FNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
14417	44785	A	14503	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKCC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITDPTEIQITIREYYKHLYANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPI TGSEIAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGNFRPISLMNI DAKIL

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14418	44786	A	14504	1	2877	MENDFDELREEGFRQSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERVSA DEMNMKGEGKFREKRIKRNE QSLQEIWDYVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTITISEYYKHLYTN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPTGAE
14419	44787	A	14505	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLP KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKNFRPISLMNI NAKILNKMLANQIQHIKKLIH HDQVGFIQGMQGWFNIRKSINV IQHINRTKDKNHMIIISDAEKAF DKIQQHFMKLTNLKLVLEVLA RAIRQEKEIKGIQLGKEEVKVS FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYQYQNRDIAQ WNRTEPSEIMLHIYNLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPLTPYTKMNSR WIKDLNVRPKTIKTEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKHKMKCC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRRIQ/GGIWCD RIL*R*TTCTVAKAIQSL*RR/W KRLQRTLSIPVLDAV*PPMF*AS
14420	44788	B	14506	1	2265	
14421	44789	A	14507	1	2832	
14422	44790	A	14508	1	2109	
14423	44791	A	14509	1	2757	
14424	44792	A	14510	1	2304	

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14425	44793	A	14511	I	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLTLEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
14426	44794	B	14512	I	2337	

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14427	44795	A	14513	1	1544	HINRAKDKNHMIISIDAEKAFD KIQQHFMMLKTLNKLGDGTYFR KSINVIQHINRAKDKNHMIISID AEKAFDKIQQHFMMLKTLNKLGI DGTYFRKSIN/DNPAYKQSQRQ KPLIISIDAEKAFDKIQQPFMLK TLNKLDNIIVYLENPIVSAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNSQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTKKWKNIPCSWVG RINIVKMAILRKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA PVAKAILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRDI GQWNRTEPSEITPHVYNYLIFD KPEKTKQWGKDSL FNKWCWE NWLAI CRKLKLD PFLTPYTKIN SRWIKDLNVRPKTIKTLEENLGI TIQDIGMGKDFMSKTPKAMAT KDKIDKWDLIKLKSFTAKETT IRVNRQPTWEKTFATYSSDKG LISRIYNELKLIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSSSLAIREMQIKTTVRYH LTPVRMAIHKKSGNN
14428	44796	B	14514	110	2153	
14429	44797	A	14515	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ LELEKQEQT HSKASRRQEITKIR AELKEIETQ
14430	44798	A	14516	3	2820	ENKDTTYQNLWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQT HSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTIQT REYYKHL YANKLKNLEEMDKF LDYTLPLRNQEEVESLNRPIG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKGRD TTK KENFR

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14431	44799	A	14517	687	2274	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLARAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARMASILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNLYLFDKPDKNKQW GKDLSLFNKWGWNWLAICRKL KLDPFLTPYTRINSRWIKDLNV RPKTIKTLEENLDITQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLKSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKHKMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCCMRKNTK TLI
14432	44800	B	14518	1	3192	
14433	44801	A	14519	1	2814	
14434	44802	A	14520	1	3144	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHV GSKALLSKCKRTEITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKR EKNQIDVIKNDK

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14435	44803	A	14521	1	2616	TTYQNLWDAFKAVCRGKFIAL NVHKKRKQERSKIDTLTSQKEL EKQEQTTHSKASRRQEITKIRAE KEIETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGDITTNPTIEIQTIREYYK HLYANKLENLEEMHKFLDTYT LPRLNQEEVESLNRPIGAEIVA IINSLPTKKSPGPDGFTGEFYQR YKEELVPFL/LKLFQSIEKEGIM NIDAKILNKILANRIQQHIKKLI HHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDA EKA FDKIQQLFMLKTLNKLIGDGT FKIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNYLIFD KPDKNKQWGKGSLEFNKWCWE NWLAICRKLKLPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGMDFMSTPKAMAT KDKIDKWDLIKLSFCTAKETT



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14436	44804	A	14522	782	3024	SKTVPTGNSLEPTQNCWLQQW LPQDIEIEKQEQT/HSKASRRQEI TKIGAELEEIETQKTLQKINESR SWFFEKINKSDRPLARLIKKKR EKNQIDAIKNDKGDITTDPTIEI TTIREYCKHLYANKLENLEEMN KFLDTYTLPRLNQEEVESLNRPI TGSEIEAIINSLPTKKSPGPDGFT AEFYQRYKEELHINRTKDKNH MIISIDAEKAFDKIQRFMLKTL NKLVLVLARAIRQEKEIKGVQ LGKEEVKLSLFADDMIVYLENP IVSAQNLLNLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLNERKEDTNKWK NIPCSWVERINIVKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRARIAKSILSQKNKAG GITLPDFKLYYKATVTKTAWYS YQNRDIDQWNRTEPSEILPRIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPFLKP YTKIKSGWIKDLNVRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATKAKIDKWDLIKLSFC TAKETTIRVNRQPTEREKIFATY SSDKGLISRIYKELKQIYKKRTN NLIKWVKDMNRHFSKEDVYA AKKHMKKCSSLAIREMQIKTT MRYHLTPVRMAIIKSGNNRITI VLLPGSLIVRSFHVTLNAILLHP
14437	44805	A	14523	1	1701	
14438	44806	A	14524	1	4434	
14439	44807	A	14525	1	2913	MGGPAALCIAVVPGDLVVVLC LEGLGSGIATWACSPWRISQG THLTFRSSLAVAAIPEGLPIVVM VTLVLGVLRMAKKRVIVKKLPI VETLGCCSVLCSDKTGTLTANE MTVTQLVTSDGLRAEVSGVGY DGQGTVCLLPSKEVIKEFSNVS VGKLVEAGCVANNAVIRKNAV MGQPTEGALMALALKDQEDIY FMKGALEEVIRYCTMYNNGGIP LPLTPQQRGAGPGDTALPSAAS AFARMSAAERNDAFQG

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14440	44808	A	14526	1	3009	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDIYRTLH PKSTEYTFPSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDGS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVPNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14441	44809	A	14527	1	4800	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFPSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVNNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14442	44810	B	14528	1	2901	
14443	44811	A	14529	569	3443	RKH*TWKRTSSTSHHKMMPN* LEKQEQTTHSKASRRQEITKIRAE LKEIETQKTVQKINESRSWFFER SNKIYRPLSRLIKKKREKNQIDT IKNDKGDTTTTDPTEIQTIREYY KHLIYANKLENLEEMDKFLDTY TLPRLNQEEIESLNRPIGTGTEIVT IINSLPTKKSPGPDGFTAIFYQR YKEELVPFLLKLFQSIEKEGILP NSFYEASIIIAKPGRDTTKKEN FRPISLMNIDAKILNKILAKRIQ
14444	44812	A	14530	3591	8157	TGTSQKKTFMQPKKHMKKCST ITGHQSNANQNHNIEPSHTKLE WRSLKRSGNNRDVGNVVEAM YGDLPPIMLIGHSMGGAIAVH TASSNLVPSLLGLCMIDVVEGT AMDALNSMQNFLRGRPKTFKS LENAIEWRNIKDLWADSIKNV AAASLACISGALPASAVTTSPD NKRMAENVLYERLLAESPNH VVAEAVIQRPNIPHLQTRDTYE GLCQTLGSQPTLYQIPSLYCSYE TNSNAYLLQPIRKEVI

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14445	44813	A	14531	172	328	AVKTEPEMKSQATKLSVVHEK KSQEGKPKHETEPKSLPKQASD TGSNDAHNIAVSR*SHRQPSC LWFMKKNPKKESRKNTQSQKA YPSRHQIQEVTMLTI
14446	44814	A	14532	3	660	TSPDCWEEGRSVDWPRPGPALS LHNCKLDLGIEGGTLQPPTPSF* PTGTRAV/PTRRRSRQETQLNSE RTVSPGSR**EKRTSRAW/RSPL QGPFGHAGQVAGGTGPRTGS TRGD/TLQKCGKIQSVPLNCELI PI*/PSILKPKVLPSCPCGIGASSS\ CPSD*VFFCTS*PWPYLLSYPLS MNFYRYHDHILKLLVQYTLYL LLQFLQVLLKYLLSHPKQHS
14447	44815	A	14533	1	1086	MVDNDVPWPLVVAQEKQPD LCLSSKGYRPLALVQLDFHQVS VTSKIFILSGALRSLTGAATAD WTCRVLVIYPHDIMADSECNSL LVPSTTRKIMKHMLASEKIKTQ NFNYNVDECVSLLYHHKANKL EAAEARQECCELLRVASVSRHC W/RDPAHPHSCWPRC*APHCLG PARAPNARPAKPATTWNLRSSR APCAAPVPTQSWAGAPSGTAG AEPS*ECRPPENQARTAGSGVH AEACAPATCPACPGPGPCGLP SSGRALFLL/CATLAIPCV*V*LC FLATPPPCR*HVTAPSAGKCIW* PDA*VTK/PRDLCGPVQVARDN GPRQVAQKKESSYVSWFGTFI SRVGDRSPPPRRAATL
14448	44816	A	14534	23	506	PDIDNIFSEFGAKSKPYLTVDQ MMDFINLKQRDPRLNEILYPPL KQEQVQVLIEKYEPNNSLARKG QISVDGFMRYLSGEENGVSPE KLDLNEDMSHPLSHYFINSSH TYLTGMNFLVLCYFSQSHQISP TSTFCCSEAEV/WFSSISCEVPLR TLGFHH

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14449	44817	A	14535	341	1248	KNAFTSFLTSFPPGQISVDGFMR YLSGEENGVSPEKLDLNEDM SQPLCFMGIWGLFCWCFIAGQL AGNSSVEMYRQVLLSGCRCVE LDCWKGRТАЕЕЕРVKILAY*1Y MCSHF*EVIEAIAECAFKTSLP TFLLFLFSLSPKQQAКMAEYC RLIGSSIFKEYAFHFY*LESGVPL PSPMDLMYKILVKNKKKSHKS SEGSGKKLSEQASNTYC*NGD MMICY*NLTGEADTESD\DADS GNV/CLFYSYFQGTAGSEAMAT EEMSNLVNFLTFFPFFVLLLNSE RNKSFEMSSFVETKGL
14450	44818	A	14536	574	647	C*PGNM/HISGQHLVAGEKEAE SEDEEEEDMKLLGTPEGGSKFT QKKVKLAADEDDD/DDDADDD DDDDDDDDFDDEETEEKAPV
14451	44819	A	14537	3	630	PGATHASAPPGVLRKCGSGPV HIIGQHLVAVEEDAQSQDEEEE DVKLLSISGKRSAРGGSKVPQ KKVKLAADEDDDDDDEEDDD EDDDDDDDFDDEEAEEQAPVKK SI\RDTPAKNAQKSNQNGKDSK PSSTPRSKGQESFKKQEKTPKTP KGPSSVEDIKAKMQASI/EKKG GSLPKVEAKFINYVKNC SRMT DQEAI\QDLWRWRRSL
14452	44820	A	14538	1	1971	
14453	44821	A	14539	316	1169	RVGGQSHGTQRISLCRHSVCSP LARQSPSNMK*VRTEEIQMAVS CYLKRWQYVDS DG\PLKQGLR LPQTAEELAA NLTVHRESHCAD IVSAVP\CAEPQQYEVA\QFGR LNFLIDSDSPHSHEVMPLLYPLF VCLHLSLVQNSPKSTVESFYSR FHGMFLQKAS\QKGVIEQLQTT QTIQDILSNFKLRAFLDNNYVV HLQEDSYNYLIHYLQSDSYTAL CKMFILLIHLDVQPAKTTD*QL YASGSSSRSENNYLEAPDMPSPI LQNDAALEVLQERIKQVKDGC PSLT TVCFYNT*QLLNTAEISPD SKLLAAGFDNSCIKLWSLQSRK LKSESCQVDMSRIHLACDILEE
14454	44822	A	14540	1	297	

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14455	44823	A	14541	2	1089	APLLGECRSGRGLASSRSRRRT TMTQSVVVQGKLRRAGRDLVA AESSGHVSCLMYSLSFLSSGRS RLALREHA AVNQVPARRREPPR LSARSSSPYSFHLQSE*L*KKIH* LYFIFLSQAVLIDMEEGVVNEIL L*IRTNQIKK*MQGIFKIHLIFR AVGHKVFGSLYQDQILEKFQIL HNYILNHL C*FLKTL*SSGTGSG LGTFL LKVLEDEFPEVYRFVTSI YPSGEDDVITSPFLVEYHLHPLF LIASLPMFFPQKSLFDIISKIDLM VNSGKV/GGTTVKPKSLVTSSS GALKIELHLKCIHLKLIKFSF*C* LFSSARFEGSLNMDLNEISMNL VPFPSS*EIVSLKYVLYFN
14456	44824	A	14542	129	461	TCISGWHLFRASVTCPIQTSPH NWHISDNSSLPNNIFVCWNLL GMTRNYIIFIEQPLKMNLWKIA TSKIRGKAFSDGIS\GNPQCNT R FHVVEKRTGQLLPGRYYSKPF
14457	44825	A	14543	1	522	
14458	44826	A	14544	1	927	MEDLLTEARSPYWGRARAKIQ DSCWSVTSDPNAGSV DILAPLL LPSPSSYLPNFTCTVS VVTSHLH EAFDLGFRGTGGSNCKTSRQV QLNNQKRKKKSKSLPFHMSL QIQNYKTQEHPAKPSSQQHQH SEHESIQT KL VFRSSMTYMH TL KLIREKGSIMLSSTQGECPNSTC RWPAEEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICSIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNLWKIATSKIRGKAFSD GISWEPQCNT RFHVVEKRTGQT T*INPDKISIQKHDIHAYIEAD KRKRKHNAVIHTG*M/YQI/GTC RWPAEEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICSIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNLWKIATSKIRGKAFSD GISWEPQCNT RFHVVEKRTGQI LNVKTMRMKTFMMIYYHLMN

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14459	44827	A	14545	1	882	MAEILTQVPDDMLKKKTPRVK SVWRSQRGSCTPLIGTTELTD TSHMSIRNMDRSHINVHTRKP SADLPYFRTHEWAHTGGKPYD CEECGKSFISRSSIRRHIMHSG DGPYKCNFCGKALMCLSLYLIH KRTHTGEKPYECKQCGKAFSH SGSLRIHERHTHTGEKPYECSECG KAFHSSTCLHAHKITHHTGEKPY ECKQCGKAFVSFNSVRYHERT HTGEKPYECKQCGKAFRSASH LRTHGRHTHTGEKPYECKQCGK AF*PRFQMT*RRKLPE*NQCG EVSVGH\HSLNRHHRADTGHP YEYQEYGQKPYKCTYCKKAFS\ YLPYFRTHEWAHTGGKPYDCE ECGKSFISRSSIRRHIMHSGDG PYKCNFCGKALMCLSLYLIHKR THTGEKPYECKQCGKAFSHSGS LRIHERHTHTGEKPYECSECGKA FHSSTCLHAHKITHHTGEKPYEC KQCGKAFVSFNSVRYHERHT GEKPYECKQCGKAFRSASHLRT HGRHTHTGEKPYECKQCGKAFG CASSVKIHERHTHTGEKPCSSNTS
14460	44828	A	14546	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSLAGILLHL ESELAQTRAEGQRQAQEYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14461	44829	A	14547	2	1044	AKTSSQMPSPQEGMCGKACTP ALSQADSLCPLRLASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALSSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNG\GGLA GMGGIQNEKETMQSLRDRLAS YLDRVRGLETENWKLESKIQEH LNVTRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAEMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLVHVFEGKQV

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14462	44830	A	14548	1	1212	GPGTGIAGGLAGMGGIQNEKET MQLSLNDRLASYLDRVRSLETE NRRLESKIREHLEKKGPQVRD WSHYFKIIEDLRAQIFANTVDN ARIVLQIDNARLAADDFRVKYE TELAMRQSVENDIHGLRKVIDD TNITRLQLETEIEALK*ELLFMK KTPEEEVKGLQAQIASSG\LTVE VDAPKSQDLAKIMADIR\AQY DELARK\NREELDKYWSQQIEE STTVVTTQSAEVGAAET\TLTEL RRTVQVFGDSTWTSMRNLKA\ NLENSL\GEVEARYAL\QMEQL\ NGILLHLESQLGQTPRTEAQRQ AQE\YEALL\NIKVKL\EAIEICHL TRPPSWKIGEDFNL\GDSLDER NSMQTIQKTTTTRISWIGQSGV LRPIDTKVLEALSQQEASGTLL GKQEANKKFQSFK
14463	44831	A	14549	1	2382	
14464	44832	A	14550	2	173	
14465	44833	C	14551	1	732	
14466	44834	A	14552	455	682	AWKRAVALGKSRPMGAVAFK RRMQPVAGPRAMQEKPPSSSS SLSIPPAF*YRLALSLAEPSSRW RARTGALMQL
14467	44835	A	14553	158	368	
14468	44836	A	14554	87	251	
14469	44837	A	14555	1	1026	
14470	44838	A	14556	201	578	
14471	44839	A	14557	336	767	AFVRAGSRFGGTPGARPDPA TRAPNPVGQSRHLRAASSRGR FLRRTRDRKFPRRRLSRLLG AI/GCRWNQPRAAEKSFSAGAV LDFSPGLSCLPAVQGS GPAARH A*ASHPLHGLLCCPSIPDEHHPL LHGAQSHRPPKG
14472	44840	A	14558	6	535	ARHRVLIGVFTIPELDILSTSP SGAQLASPS\DPAPGLQVELPAS PARCARIPQPLGGRWDWAQTQ EPSWLHLVEPAPGLQVELPAS TPCACIPQPLGDRWDWAPWSR GWCSLGRLGPHRSPWSGWEAE AWRAAGPEPCPTGRQLRLGEK SSAAPVGWHCWGTQYTLRSH WPGC
14473	44841	A	14559	375	638	
14474	44842	A	14560	92	514	

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14475	44843	A	14561	54	380	SCHHYCRIHRRCARFLAGP*LPS RGARLGTCSPPCVSLPPAPWAP VRPEPPRRAPPPAPQRPVPSSTTQ GLRSAGARRGTGRQLHLQLRG SAASFLKSVRPRTHQFRTH
14476	44844	A	14562	531	773	
14477	44845	B	14563	92	1774	
14478	44846	A	14564	1	390	LHDLQLSKPLSDDTALT DGG/Q PLPARWWAQPGRLQRCARFLA GP*LPSR/WGRARDLQAMPEP PTPSVGSCAAQASPTSAAPCSM APSPIDHPRAWPVLCSCMMLS LFVASISSCSQHQPQMVGTMVC L
14479	44847	A	14565	165	545	SLHSLKCWWLQQLWVTDTCPR CSVQDCRQRWASAGNQS*RLL VDPAPGLQVELPANPVPCARIP QPLGGRWD*APWSRGWCSSGR LGLHRSPWSGWEAQAWRAAG PEPRPAGRQLGAMSCKVETGT
14480	44848	A	14566	1	309	SACLAGRPIRGEGRPRDLQAM PEPPTPSMGSCAARASPTSATPC STAPSPIHHSRAEECGHTALG/H GRQLHLQPRNLPQTINWRTTYS SFPATLNRLDGGG
14481	44849	B	14567	1	843	
14482	44850	A	14568	143	535	
14483	44851	A	14569	375	571	
14484	44852	B	14570	289	972	
14485	44853	A	14571	27	363	
14486	44854	A	14572	2	490	
14487	44855	A	14573	574	961	RLTLPDRLGSPPDTHQAQQITW ALLPQGFADSPHYFSQAQISSSS ITYLGIILHENTRALPADHV*LIS QTPISSTKQQLSFLGMVRYFC LWIPSFTILTKPLY*FTKANLAD PTDPKSPFHSSFRSL
14488	44856	B	14574	182	1513	
14489	44857	A	14575	894	1305	QTQEPSWLHLVDPALGLQVELP ASPVPCARIPQPLGG*WDWAP WSRGWCSSGRLGPHRSPWSGW EAQAWRAAGPEPCPAGRQLRP GQHPL/RHMNKSQALSLLIAQP LGINLLSWWPPKYNRVPVPLIGL SGLLIPATF
14490	44858	A	14576	531	801	



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14491	44859	A	14577	441	783	RAPPPAPWRPVPSTTQGLRSAG EQRGTGRQLHLSAAPVRDPRG EAIWAPESGRSAASILKPARPPA HREERTTPDAPP*EL*HSPRRSA ASLREDPWLHS*SQ*DQEPTNS GHTVSQDQSYYS*LEVSETKNP PIPDTL
14492	44860	A	14578	344	1632	FLAGPYLP SHGAGLGTCSLPCL SLPPTPWAPVRPEP/PMPSTTPCS TAPSPIDHPRAEECERTAQDWQ AAPPAAPVWDPLGEASWAPES GTNISITPGNATFVTRVQGQAW FASCITGHDMSSLKTSSVVVLR RQSEALLPANLTCNWQDSSAL ATLESALSQVRHKRFTFTLMVF TGSAIDIMATVSI VVSITESVQ TTAFVDNLAKNICDELLLQDM DEAGNQHSQQNNTRTENQTPH VLTHKWELNNENIRIQGGEHYI LGPVGGRDEKTL LRTYCLKSQ EGADTKCRNKH NKETQKQSKS LVYSSTLNPEKLLVCKRLSLEL TRPENTLRCTNIGKLKAVAGG MSAASGIYLETDTQPYPLKQEL KEIKECVGKNSVVVVFLVRKK LSVSQYAFARCLDAKHSTSENV EIAGKLRIQSFEVGKQL

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14493	44861	A	14579	3	2233	NWLPSVSRQCETHKIAANQSLT QRQMPLTSLYCDVVILPVSVGL ESLQSPYYRTSPCDPVSQFCLIK ISASSLPVLSLWKTCLKNAQSYQ RDYRHDNKAHYFQKLVTMQE NLYVLLCDEELDAVSLEAVHQ QKMKNRQAHSSSGCCQKVAN APRNEESSGQFRVIGNEKFEKG PCGVRQQIFEKVLLPNRTCEFV TPRFNRNFEDLIKDLKAAETLID FLVYEPKNQRRLVNRFRLPCKL LHNLGHPLKTDAAQSPRPKPPGP SWMPSPFGSKPPSHPLVSPHLNP QVWDTSSPSLATEHASLTISLKP NHPYPAQSQYSIPQHALKGSKP VITRLLHGLLKPINSYPNSPILP VQKLDKSYRLVQHLCLIYQIVL PIHPMVPNPYTLLSSIPFTTHYS VLDLKHAFFTIPLYPSSQPLFAF TWTDPDTHQAQQITLAVLPQCF IDSPHYFSQAQISSSSVTYLGIIIL MKTHIGLGAVEQGVVLVGEAR AAQEPMEWVGSGM/CGLQVP SPAPWEGS*GPARNRAQ\PTIV PVLDFNPAFHIIPTDTPDHHDCI SLIHLTFTPFPHISFFPVPHLEHT WFIDGSSTRPNCHSPAKAGYAI VSSTSIIEATALPRSTTSQAKLI AYTDSKCAFHILHHHAVIWEER NFLTMQGASIINAFLIKTLKDI LLPKEAGVIHCKGHQKASDPIT QDNAYADKVAKKQLAFQLLSL
14494	44862	A	14580	1	642	SGTVPPTFVRTVIAQAGARTVI QQSLIGSLYIFRHCVRQCQIESV FVIIWSRVGYDEKGFCLFTSVL GVWGHVVRTKPCLLITWRTLKS RSGLE*PAGFSSSPGTSPQIIRKQ KRGVPQHVPCLDLPGRFRPRAGT PLAAQIQVPGLPPCGHQE*NRR WAGSSALCPPYLCARAGTGAV CRACEPAGV/AGWAWAWWAP HSEHAASPAGPRQWGT
14495	44863	B	14581	393	549	
14496	44864	B	14582	1	591	
14497	44865	C	14583	226	828	
14498	44866	A	14584	1	1362	

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14499	44867	A	14585	1	585	MANVHQTMPMRLRLKLPDSFKP PEPKSNSQRVSTEAGTAGALTP QHVRAHSSPASLQLGAVSPGTL TPTGVVSGPAATPTAQHFQQSS FEIPDDVPLPAAREMAKTSSGQ RYFLNHIDQKTTQQDPARKTML SQMNVIANPPVQQNMMNSIPQS PQGGV/MGG\$NSNQQRQMRPQ QLQMEERLQLKQQ*LLQQELALR
14500	44868	A	14586	345	1053	RWRLQNLSFCSSCSGSGSEGAT CFARGRQQSNLQSKIKFPSNTD SRSTGYNSFDRQPNICFYKRQE TPHTGPHVPPEGRPYMPG*CG A*SPGPFASRN*SEKN*SYKCSL HTAFNVISSVI**RYCTRQWHI VKCLDSFCDPFLISDELRRASTD AGTAGALTPQHVRHSSPASLQ LGAVSPGTLTPTGVVSGPAATP TAQHLRQSSFEIPDDVPLPTSW GEAKTSSGSKIPF
14501	44869	B	14587	607	1185	

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14502	44870	A	14588	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNIKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNKLKISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSL FNKW CWENWLAICRKLKLDPFLTPYT KIHRSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRJYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
14503	44871	B	14589	1	1647	
14504	44872	B	14590	1	2025	
14505	44873	B	14591	4	2121	
14506	44874	A	14592	2	1879	
14507	44875	A	14593	1	2130	
14508	44876	A	14594	1	3018	
14509	44877	B	14595	1	3171	

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14510	44878	A	14596	1	2700	MEKKQSRKTGNSKNQSASPPP KECSSLQATEHSWMENDFDEL REQGFRRSNYSELKEEVRTGK EVKNLEKRLDEWLTRITNAEKS LKDLMEKKTMARELLDECINLS SQFDQLEERVSVMENQMNEK PNLRLIGVPESDGENGTKLENT LQDIIQENFPNLARQANIQIEIQ RMSQRYSSRAIPRHIIVRFTKV EMKEKMLRAAREKGRVTLKG KPIRLKADLSVETLQARREWGP IFNILKEKNFQRTSYPGKLSFIS EGEMKSFTDKQKLRYFVTTRP ALKELLKEALNMERNNRYQPL EKQIQTITIREYYKHLANELEN LEEMDKFFDITYTLPRLNQEEVE SLNRPITGFEIEAIINSLP/TKKSP EPGGFTAIFYQRIEKEGILPNSF YEASIIIMLKPGRDTTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHQDQVGFIPGMQGWFNIR KSINIIQHINRTNDKNHKIISIDA EKAFYKIQPFMLKTLNKLIGID GSYLKIIIRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NLVLEVLARAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIA SAQNLLKLKGNFSKVSQYKINV QKSQAFLYTKNRQTESQIMSEL PFTIASKRIKYLGIQLTRDMKDL FKENYKPLLNEIKEDTNKWKNI PCSWEGRISILQMAILPEVIYRF
14511	44879	A	14597	1	2310	
14512	44880	A	14598	1	1305	
14513	44881	A	14599	1	2148	
14514	44882	B	14600	1	777	
14515	44883	A	14601	2	2971	
14516	44884	A	14602	1	3810	

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14517	44885	A	14603	1	1773	MNIGAKIINKILANQIQHIRKLI HHDQVGFIPGMQGWFNICKSIN VIQHINRTKDKNHMIISIDAEKA CDKIQQRFMLKTLNKLIGDGKY LKIIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPSPLLFNIVL EVLARAIRQEKEIKDIQLGKEEV KLSLCADKMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLQIHQTRDVKDLFKEN YKPLLKEIKEDTNK\NIPCSCVG RINIVKMAILP/KELEKTTLKFIW NQKRARITKSILSQKNKAGSIM LPDFNLYYKATVSKTAWYWY QNRDIDQWNRTEPSEITPHIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPLLTL YTKINSRWIKDLNVSPKTIKTLE ENLDITIQDIGMGKDFMSKTAK AMAAKAMSTKAKFGKWDLIK LKSFCTAKETTIRVNRISYASS STSLQAFSRKILNCSKRFFKIAQ MCKLVELRPQDMHTSRGSGNC SEARTLLCDFSAGRTSVNHGRI WRQIREAGAADPEIGLEVCNKN PTSFTLFYFLSYTTG
14518	44886	B	14604	1	2070	
14519	44887	B	14605	1	3190	
14520	44888	A	14606	1	3370	

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14521	44889	A	14607	569	3030	RKH*TWKRTSSTSHHKNM PN* LEKQE QTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITHTPTEIHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIISID AEKAFDKIQPFMLKTLNKLGI DGTYHKIIRANYDKPTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLAIRQEKETEGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVS GYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSLFNKWC WENWLAICKKLKLD PFLTPYT KINSRWIKDLNVRPKTIKTLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMKLKSFCTA
14522	44890	A	14608	1	2742	
14523	44891	A	14609	1	3828	
14524	44892	A	14610	1	2667	
14525	44893	A	14611	1	2325	
14526	44894	A	14612	1	3057	

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14527	44895	A	14613	603	2973	DNTARGETIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAAIRVLTVRRKTNKQKGHPH QNPICTSPPSSKTKETQTTIREYY KHLNANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLLKLFQSIEKEGIL PNSFYEASIIIPKLGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKHHGQVGFIPGMQGW FNIRKSINVIQHINRTNDKNHMI VSDAEKAFDKIQQPFMLKTLN KLGIDGPYLKIIRAIYDKLTANII LNGQKLEAFPLKTGTRQGCLLS PLLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLCLEFADDMIVYLE NPIVSAQNLLKLISNFSKVSGYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTGDV KDFFKENYKPLLNEIKEDTDKW KNIPCSRVGRINIMKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRARIAKSILSQKNKA GGITLPDFKLYYKATVTKTACH RVGRAQQHSISKWKWYIHDWS QVGPEGTND SARYPDTTQKWT AAALQPLSRTSLKDSHEGKSSQ WAE LRAVHLVLRFAWKEKWP DVQLYTDSWAVASGLAGWSG TWKKHDWKIGDKEIWGRATPV IAQWAHEQRGHGGRDGDYAW
14528	44896	B	14614	1	3105	
14529	44897	A	14615	1	3654	



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14530	44898	A	14616	735	2839	RSFPRS RSPSPFLLLSRYLRIH MV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVIK VRR RLEKEKALRAYV GKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDAT EIQTTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNR PITGSEIEAIINSL PTKRSPGPDGFTA EFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASHILIPKGRD TTKKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFI PGMQGWFNKRK SINVIQHINRTNDKNHMIISIDAE KAFDKIQQPFMLKTLNKLGDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQGCPLSPLLFNI VLEV LARAVRQEKEIEGIQLGK EEVKLSLFADDMIVYLENPIVS AQNLLKLISNFSKVSGYKINIQK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLG IQLTRDVKDLFK ENYKPLLNEIKEDTNK WKNIPC SWVGRINIMKMAILPKVICRFN APIKLPMPFFTELETTTLKFIWN QKRARIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWY WYQN RDIDQWNRTEPSEITPHIYNYLI FDKPEKMSIIDTGGWYEAPVSS FFKEGLCRTGTENQVNRQPPAA SPFKVYV SCTGSLHPRPHYFLE
14531	44899	A	14617	1	2250	
14532	44900	A	14618	1	2870	MKAEIKVFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITKIRAE LKEIQTQ KTLQKINESRSWFFERINKIDRS LARLIKKKREKNQIDTIKNDKG DITTDPT EIQTTIREYYKHLYAN KLENLEEMDKFLDTYTL PRLNQ EEVESLNR PITGAEIVAIINSLPT KKSPGPDGFTA EFYQSWAETQP KKENFRPISLMNIDAKILNKILA KRIQQHIK

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14533	44901	A	14619	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMLLST CDIDLTAARRAWLGCLPTKKSP GPDGFTAEFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASIIL PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIQGMQGWFNICKSINVI QHINRTKDKNHMIIISIDAEKAF DKIQQPFMLKTLNKLIGIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTTRQGCPPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWYWYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWKGDSL FNKWCWENWL AICRKLKLDPFLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMAACA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKK\TNMPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL
14534	44902	A	14620	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14535	44903	B	14621	1	2758	
14536	44904	A	14622	1	5178	

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14537	44905	A	14623	1	3382	MGDFNTPLSTLDRSTRQKVNK DTQEFNSALYQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCERTEIITNYLSDHS AMKLELRIKNLTQNCSTTWKL NNLLLNDYWVHNEMKAEIKM FFETNENKDTTNQNLWDAFKA VCRGKFIALNAHKRKQERSKID TLTSQKLELEKQEQTTHSKASRR QEITKIRAELEKEIETQKTLQKIN ESRSWFFERINKIDRPLARLIKK KREKNQIDTIKNDK
14538	44906	A	14624	965	4091	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQKLELEKQEQTTHSKA SRRQEITKIRAELEKEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
14539	44907	A	14625	3	3229	
14540	44908	B	14626	1	2791	
14541	44909	A	14627	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNYLSDHSAI KLELRIKNLTQSRSTTWKLNNL LLNDYWRKQERSKTDTLTSQK KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
14542	44910	B	14628	1	7849	
14543	44911	A	14629	1	3985	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRSLRSRCDQLEERVSA EDEMNMKGEGKFREKRIKRN EQSLQEIWVYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLARQANVQIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEY TFFSAPHHTYSKID

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14544	44912	B	14630	64	5735	
14545	44913	B	14631	891	6894	
14546	44914	A	14632	33	476	
14547	44915	A	14633	1	360	GQGEPKQLGRHPGVLRPHVVS AKTGDAC/IWTQVRNLFPERPK VQWKEGCA\LQSGNSQESVTEQ GSKVSA YSLSSPLTSLKADYEK HKLYACEVTHQGLSSPVTKSFN RGEIIEGEVPPCI
14548	44916	A	14634	40	508	LPGECHRAGQQGQRLQPQLLG LLMLWVPGSGGEIVMTQTPLSS SVTLGQPASISCRSSQSLVHSDG NTYLTWLQQRPGQPPRPLIYHV FKRFGVDPDRFSGSGAGTDFTL E/ISGRVEA*VDGVYYCMQGV QFPCSFQGGTKLETKRTVAAPS
14549	44917	A	14635	3	652	AWWNSETPAQLLFLLLWLPHY TSGEIVLTQAPGTLSLSPGERAT LSCRASQTIGSTYLA WYQQRPG QAPRFLIYGASSRATGIPDSSSSS SSSSSSSSSSSSSSSSSSSSSQ YNNWPPGGTFGPAGTKVEIKRT VGCTHLFFIFPAHLSQLKIWE LPSACVPVCNNF\YPREVQSYSG KVDN/VPSNRVTPRESVTEQDIS KDSTLQPSAATLDA
14550	44918	A	14636	3	440	
14551	44919	A	14637	457	1270	SRRVSFPPSA*QAVSDPSRQQLP SLRLRWGPEGRSFP AENLGRGV RWVGGRDPLAA\LP*SSGPLNA GRLFARPQESGAPRIGNVRDVP RAREDVGTQAGRREREFRLFG PAAVVG CERHLSFPRAAGAG GRAGAAGRRSAPPGGLGSCRSC RISAGPHGNDVPTLGGRGW/PL *NSGA EKL*EQ*G*/TGTGSWSL AAILGGVPREP\GFRGAGRET LG PRGWL VMLSRAVLLH SVLLCT CHSSWVLLHSDLACHADNNPD IQSCLFPMSKY
14552	44920	C	14638	90	465	
14553	44921	A	14639	116	439	
14554	44922	C	14640	278	364	

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14555	44923	A	14641	116	687	EIKDAALQLPLWRAQDRERAM KERREKREREREKERDREKKRK EKMFCCKRSCHTIMEPTPELSCV LPCLAPIVLAPPPLPLPVLP ATR*LPQQNRQSTLTEAHGL\TR GPITLATNRCMPSTTRDRRLT PPSTLPNTTNLSWGVREGPNQD PEPSLSPCVPHDPFDYNAESLFS YWLVSVPMTAHTP
14556	44924	A	14642	474	1166	HPNRQGLRAPATAPGHPGREQ ALCEAPQGPQGKCGPPRAQEA Q/GTEPRRASRAAGACRHHWP QVA\RPAGAGAPAGAARLGGV*E PGRAA/APRLPLPSQCCHR*GTS PAHLSASRSSSATCPWRRTAGR SGPSPCMTL\KQRQGHPRDGI RAPSCDVTNRGLSSLLNLGGS A QQLLLASRPLGSGSGALEALEH GKSRAPEWPLHGHNPVHGK DPAGSTSHWPRPPAPRT
14557	44925	A	14643	283	806	PRGSFSSSTGRTRNAAGSTSNCSL RSLSARIEERKVSRCVGPVNH HLRLGALTTRPSWNGAIPTLA KLPKRC*RRSGRRSKTWSFPG ST*LGNFAEEMICAASARPAGV PGPALPTPLRAPLPGVPWTSSR GRMCARLSCC/HAGRPVPARPG AARARRAAAGERHRPPALRV
14558	44926	A	14644	1	338	
14559	44927	A	14645	1	1091	MSNDGRSRNRDRRYDEVPSDL PYQDTTIRTHPTLHDSERAVSA DPLPPPPLPLQPPFGPDFYSSDT EIPAIPDLKPVRRFVPDSWKN FFRGKKKDPEWDPVSDIRYIS DGVECSPPASPARPNHRSPLNS CKDPYGGSEGTFSSRKEADAVF PRDPYGLDRHTQTVRTYSEKV EEYNLRYSYMKSWAGLLRILG VVELLGAGVFACVTAYIHKDS EWYNLFGYSQPYGMGGVGG GSMYGGYYYTGPKTPFVLVVA GLAWITTHILVLGMSMYRTIL LDSNWWPLTEFGINVALFILYM AAAIISM*MIPTRGGLCYYP LNF NTPVNA\GSAG*KEDR*LQ*SSC LSP**FISLVLWFA

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14560	44928	A	14646	398	1107	SPGLVCGLLIFCKVTVPICAGPY RCPFGGLRH*SAR*QPPSGLREN GARPPGGEWLCPC*FPP*PLNSR WKLPPRLVT*GEPWAAGEKFP RLGAGTGPAAGEGLPRARDWE PGRAGPERWAPGRGPAGTPAK TAAVKRSAPLPGS\GDYANGER KPPSPFCQVKSGNL*VLCG*RL SLPAA*KPKKA*RRGRRQSPGK TGYQVQQTRPKNDPKSS\GPSP KNRQSLCLQPLWSFLIQ
14561	44929	A	14647	1	540	MGVRDPLEEAVCALAELOHCA GRFAALFRASRQERLSLLKLCP QLPLPPRALSQGYKPLIGALLAF FQRCTAQRGGI*RGSLATVTLAS CGGLCPV*TSQRRCLPVRGKLP TQASVMANAPPRTLQHLRSTS DCCAGSENFKPVDSLGLSGVG GSTELDHLAPWLQPAFQGSEW FYLTF
14562	44930	A	14648	169	487	EVCYYPPSETYFCQFVKLILCPV LFPCWQGVVIQPKLSCMRCLST LLRGVSQ*GYMGVRDPLEEAV CPLAELEHCAGRSAALFRAGRQ ERLSLLKLRLPQLPLSPSA
14563	44931	A	14649	1	210	
14564	44932	B	14650	1	1683	
14565	44933	A	14651	1	529	MDSEVQADDEVSDENGELIGN WGKGGMGVSDPLEEAVCPLAE LERSAGRSAALFRASRQECLSL LKLT/LTAAPSPRGTAFRSPFKS PAQRRSIIC*Q/LYSCKTFRSTVA PMPRLCLPQASGKVQ*EN*SWA IPA*QGTSPMCSLCSGAPHQPG APLVLPPLPPVNRLRRELQCWL
14566	44934	C	14652	295	430	
14567	44935	A	14653	452	637	
14568	44936	A	14654	151	446	MVLSHWHSRCHWGMKKNYLQ LARCLPKWLPSFVFETQGPCDV STQGTLLVYGLQRPWEKHSI*A R*HHP SQHGPSQLPLARGGSSP TPCASRMQRHPT
14569	44937	A	14655	2	335	EDRSAFRPRQPHTLHPLHARSL APRSPTPPSPSPDTQLGLSGPTS GPESAPTA/PGNPSWRSSRWGSS SPCAASST*KSPYP*/CSPT/CAFP SPRLPFCRSAYQPAAGAGRK
14570	44938	B	14656	373	502	

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14571	44939	A	14657	1	400	GSPAPAAMDEERALYIVRAGE AGAIERVLRDYSKVKSPGPGR AVSHPRAAALRACTSHSPPPPSFR GCAL\PPPKTFPAWACVFVPPAF SIHAS/SHPTTPTVAPTPLIPGA A*PPVLLSSVQVTPPESVDVHL
14572	44940	A	14658	659	1177	ARKGSALLRLYLSNAWCVCVK VLRIFSTASAYITRRDSSLGPVW TFLNFSFGSPGEIPTPFFFFPVFP LPLVAWFPCASFCLPQCP\LVPS EPSPPPHSGDAHCSPPKTFPAW ACVFVPPAFSIHAS/SHPTTPTV APTPLIPGAA*PPVLLSSVQVT PPESVDVHLCVPVPHS
14573	44941	B	14659	1	318	
14574	44942	A	14660	2	131	
14575	44943	A	14661	354	762	CPEIRPPS*THGTK/SHFPPTASG THSVLEAL/PDTRQSPSRVHQ DPSPAI/PALLSPHEHGPQHLL QLPSHRCHPDTAPFNCDVAKAC PGHATAALEHPYLSGRQSPSP THLPKLPAGRGYTVCALPKGPG ERSAV
14576	44944	A	14662	157	413	ALVCS/SSLAIREMQIKTTMRYH LTPVRMAIIKKSNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
14577	44945	A	14663	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSKISDLILCLKKKIM NRHFSKEDIYAACKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSNNRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DLADPAIPLLGIPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
14578	44946	A	14664	1	1584	
14579	44947	A	14665	1	4729	
14580	44948	A	14666	1	1566	
14581	44949	A	14667	1	1424	
14582	44950	A	14668	1	576	
14583	44951	A	14669	1	3325	
14584	44952	A	14670	1	2195	
14585	44953	A	14671	1	3162	
14586	44954	B	14672	287	2018	
14587	44955	A	14673	1	1073	

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14588	44956	A	14674	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKETQ
14589	44957	A	14675	1	1838	MIIPIDAEKAFDKIQQPFMLKTL NKLGIHGMYLKIIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LPPLLFNIVLEILARAIQEKEIK GIQLGKEEVKLSLFADDMIIYLE NPIVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRARIAKTLSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSLF NKWCWENWLAICGKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELKQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSSLAIREMPIKT TMRVHLPVRMAIHKSGNNRC WRGCGEIGTLSHCWWDCNLVQ PLWKAVWRFLKDLELEIPFDPA ISLLG/YPKDYKSCCYKDTCTQ STFTCRQHLPL



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14590	44958	A	14676	1	2354	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRTYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKTSRRQEITKIRAELEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKREKNQIDAIGN DKGDIITDPTEIQTITIREYYKHL YGNKLENLEEMDKFLDTYTLF RLNQEEVESLNRPIGSEIEAII SLPTKKSPGPDGFTAIFYQRYK EELRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKRARIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMLHIYNHL IFDKPDKNKQWGKDSL FNKWC WENWLAICRKLKLDPLIPYTK INSRWIKDLNVRPKTIKSLEEDL GNTIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWEKFFAIYSSDK GLISRRYNELKQIYKKKTNSPIK KWTKDMNRHFSKEDIYAAKRH MKKCSSSLAIREMQIKTTMRYH
14591	44959	A	14677	1	3144	
14592	44960	A	14678	1	2745	
14593	44961	A	14679	1	2742	
14594	44962	A	14680	1	3264	
14595	44963	A	14681	1	2982	
14596	44964	A	14682	1	3102	
14597	44965	A	14683	1	1443	
14598	44966	A	14684	1	3723	
14599	44967	A	14685	2	1841	
14600	44968	A	14686	572	744	DLLTTIRMPTDVKKCSSSLAIRE MQIKTTM*YHLTPVRMPHKKK GNNRCWRGCGEI
14601	44969	A	14687	1	3588	
14602	44970	A	14688	1	5569	
14603	44971	A	14689	1	3992	

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14604	44972	A	14690	755	2415	QELRVSGWSPASAPANT*CPPA QPCPTRRSGGQAPARTSRPG SRPRTASALPRPAAQKAASRSA RASRTNPYTAPKPLPSVESALQ EAAIGEHAHQQRVSCTCAAPA APPSPAWPWSAARSAAPPRT* ASAPA*SPL/PVRLKKSPGSSNC EARGEGWKT/PALPVQLGAHGP PQPAAVPCASPGSGAGPRWSRS ARRTPRGPLQRGRTWVSPDPGR EATPSGTQWPQKTRGSLPGS*C APETPCSAA*SSGTSPPRGAGGC CPGTVPPALEGHN*PQRWGS HSHS AGRVE\TRAEGPQCQQGAPAGC SLGVGGQRGPPGLPIPVPGLC* TCRSS*MEAATGSVEKCKRMA SLMQASRWSFLRVAPVSGQVK YTPGTARWAEPSSLGSDTTLP V GAS/RAPADGGFGLKFLSHLVS DGVLRCCGPRPGTASAPAGLR AAAA\PSVPSLVGPWRGGLGAG WLGFSWLWAFSPTDSL*PGPA LLNLMSALNS*KNFFMVAARS CGGGTRGRGGTGPSRGRGRRR PATGRK*KKKKKKKKFTSPPEV PPSPGLPRDNRL
14605	44973	B	14691	1	822	
14606	44974	A	14692	1	2789	MAAVRKQLPRGVLYGGSGAL LSTAAADTSLLLGSLQERKSAS AGPGYLRSSVAAWSGLWLTGA SEAHSVVLACFSRKDVEASLSV GLPVHPDASCARRLDAADGVA GGSPRLPQSTDGWRLTAHSLPQ STDGWRLTAHSLPPPTDGWRL TAHSLPQSTDGWRLTAHSLPPP TDGWRLTTHSLPQSTDGWRLT AHSLPQSTDGWRLTAHSLPQST DGWRLTIHSLPQSTDAWRLTA HSLPQPMDGWSCRSAQWCV
14607	44975	A	14693	176	440	
14608	44976	A	14694	114	253	

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14609	44977	A	14695	124	890	GSRAWDRPRLEVA AATTTLFY GYGFVSAELKKASKRMTCHKR YKIQK\KAPEHHRKIRGEAKKR GHNKPRKDPGVPNSAPFKEAL L\REAELRKQRLEELKQQQKLD RQKELEKKRKLET*SWIFKPSN V\DPMEK\EFGLCKTE\NKA\RS KQNSKKLYCQELKKVIEASDV VLEVLDARDPLGCRCPQV\EEAI V\QSGQKKLV\IYLNKSDL\VP KEDL\ESWLKLF*RKDL PNSGCF RASTKTQRVKGKITKVSFIS
14610	44978	A	14696	553	997	EVTACWQSSQPSLT LGASSAW APTLA ALEEFSPPLHCGSPFLG WPRLEPAPSAPPWAPVRPEPPQ QGPPSAPGRPISTTQGLRSADA GRRTGTQLHRQPAKVCSF/IS*S QRDHEPTRRNEQLQTRRLKSCN THREDLQLHSRRKKL
14611	44979	A	14697	1410	2036	
14612	44980	A	14698	3	630	RYKGS PRPHQTQEPSWLHLVDP APGLQVELPASAPCARIRQPL GGRWDWAPWSRGWCSSGR LG QHRSPWSGWEAQAWRAAGPK PCPAGRQLRPGEKSSTAPVGRH CWGIQYTLRSHWPGC*VPHSSG PAGLAGCSGTPAGPQAPHAAP V PARA/CSLHTSLQAEGVGSSL GQPRKGLPQCRWGLKGSSNAA KVGAQAGEVQARALRTAS
14613	44981	A	14699	190	383	ASHPLRGLRSGRSLPDERHRL HSAQSHRPPKG*GVRAQGAGL T/WQLHL*PQCGIHWVKPAGLL
14614	44982	A	14700	1	1095	
14615	44983	A	14701	1	777	
14616	44984	A	14702	1	933	
14617	44985	B	14703	1	996	
14618	44986	A	14704	978	1207	ASLPLRGLLCCPSLPEERRPLLH GAQSHRPPKG*GVRAHGAGLA/ WQLHLRPRCGIHWVKPAGLLS LGPHQQSSKSA
14619	44987	A	14705	111	558	

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14620	44988	A	14706	1	1103	MKPWALKVSVTALKVARLEFV PPDVRMCSEFLPCGVKLQTFV SVTALKAAARLELFVSPGGLVVS LASGVKLQTFVSVTAHKSSVD PRSEQQDQLLQRAKEQTFHTVE GDRSGSPDGAQLASPSGSRT RAAGGAACQSRALRPHSSALG WSMGLGAVEQGA VLIREAAA HEPMERVGGSGMAGCRSRALP REKAAKARRETEGSAAVSGWL SGIAQWPKIDHEGFRAVKMPQ AAWLLKAVTFIDLTTLSGDDTS SNIQRLCYKAKYPIREDLLKAL NMHDKVAAGFPAGQTHLKTRL EEIRLAVEDGATEIDVVINRSLV LTGQWEG/LYSPVVYSALPCNI* HSRLFLPSGNALLLWLWCLHS
14621	44989	A	14707	2	2300	
14622	44990	A	14708	2	1058	ARSNIRMVTAFRSLPAGSSGAA RAMSAHNRGTELDLSWISKIQ VNHPA VLARRAEQIQARRTVK KDWQAAWLLKAVTFIDLTTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGITTAAVCVYP ARV\CDAVKGTSRPAG/CVNIPV GISRAAGF\PAG\QTHLKTRLEE IRLAVEDGSLQKIDVVINRSLG A*QAQWE\ALYDEIRQFARKAC GEAHLKTLATGELGTLTNVY KASMIAMMAGSDFIKTSTGKE TVNATFPVAIVMLRAIRDFFWK TGNKIGFIPAGGIRSAKDSLAW LSLVKEELGDEWLKPELFRIGA STLLSDIERQIYHHVTGRYAAY HDLPMS
14623	44991	A	14709	576	998	VLQFLKAACPEFVPSGVPMCSE YLPSSGGFVVS LASGVKLQTFV SVTALNALRLELFVPPGGLMVS LASGIGSCRSSR*VLQLIKAVWT QRPLGGRWDWAPWSRGRSFG EARAAQKPMEGVGGSGMAGC RSRSPAPREGS
14624	44992	A	14710	2	589	RHHPRHAVQARFPAGPLAGA QRGSGAE*RGPGSGPGAGLS GGESL/PGETDRGADKEERGRQ RWQRALGRLSAGADPLPAELR GRRQRRGR*AGQRAAQEAACE APIQSGGARNRRG*GRRL*GC YQ*V*FPGLTRGWGRGSRPSAV HCGWEPP*AGKPSGQTPRHSG* PAGVDGLPPKVTGPPPGTPQPR

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14625	44993	A	14711	1	1596	MRLTRCQAALAAAITLNLLVLF YVSWLQHQPNSRARGPRRAS AAGPRVSLPPHPLTCVWRCSR AMDRPPAASRPETTVAEFVAL VLDGARAEAHALLERMVEALR AVSARLVAAPVATANPARCLA LNVSLREWRTARYGAAPAPRC DALDGDVAVLLRARDLFNLSA PLARPVGTSLSLQTAALRGWAV QLDLTFAAARQPPLATAHAR WKAEREGRARRSALLRALGIRI VSWEGGRLEWFACNKKNQRC
14626	44994	A	14712	225	980	VPSRTWAEYRTRFVPHSLGQPR SSHIPQSPQTDQTAQGQQALAP PAGRSGQ*GRPGRRARLGPGER HS*APPPLSLLLQTFPHLQALP SAHARPSGQPHADRGHSRSPSG /DLSTSSVLKVVRPQAGGPKQA RCPQAGRVCHCPRGGRRGPE/Q Q/GG*RPEAPQASPEKGSTGLRP SAKDSKNQGTGIFLRCQVAPRP EALCCPPPRGADTPVSPCLWVA GAGIPLQPPEGAEGAVLGLSLCT LCPGSPDSPPTS
14627	44995	B	14713	405	893	
14628	44996	A	14714	178	499	
14629	44997	A	14715	231	436	
14630	44998	A	14716	141	393	
14631	44999	C	14717	97	351	
14632	45000	A	14718	119	358	
14633	45001	A	14719	21	614	PPCTSLRPLHAFSGKMTHLNRG TSLLLDSQLHNLIALQMTCKFD VEIPNFFWEPSVTPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGFGGYLSSDVSSSP RKAASVSMYTVITSMLNPFIY SLRNRDIKGVLRQPHGSTVQFQ YLLICSIPFVWVKKGSKVK
14634	45002	B	14720	162	1263	

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14635	45003	A	14721	696	1791	VWIALKSENITCELLLFKMQTQ CQVLVYLFPIFQPSFLGKRCPIS TDPQNLTDVSIFLLLEVSGDPEL QSPCWAVPCPCAWTVLGNL LHILAISPDShLHTPMYFFLSNLS LA\DIGFTSTTVPK\MIVDI\QSHS RVISYAGCLTQMSLFAIFGGME E\DMLLSVMAYDWFVAICHPL YHSAIMNLCVSGFLVLLSFFFF\ LSLSDSQLHNLIALQMTCFKDV EIPNFFWEPSQLSHLACCDTFTN NIIMYFPTAIFGFLPISGTLFSYY KIVSSILRVSSSGGKYKAFSTCG SHLSVVC*FYGRGVGGYLSSDD VSSSPRKGAVASVMYTVVTPM LNPFIYSLRNRDIKSVLRRPTEH CLISKK
14636	45004	A	14722	1	1971	MTRKVTLLRLRTWRGGCGRLA MGMEATPQGS LHPLFQEHWIR AEDFGVLSMPHPNSVQGVDDM IRLGDLEAGMVHNLLIRYQQ HKIYVSLPSPVSTGEPLTGANLL DREKKMMHRGHCPALTEGVS GPDNPEGRARAKAKAKARAE PLPGAEGTDHLLPSQTYTGSILV AVNPFQVLPLYTLEQVQLYYSR HMGELPPHVFAIANNCYFSMK RNKRQCCIIISPQNRVGAQTD VLKVFQHLLISLICKTTLQACCI PSHPYLSSAPGPPPLTTQCRSYS DSLLGPQLFGDVCYNCSHVIEG DGEALCSLPHPTCSPGAWVLQL VSPLNKAWCVSCFSCSTCNSKL TLKNKFVEFDMKPVCKRCYEK FPLELKKRLKKLSELTSRKAQP KATDLNSAEGPLAQLGAVGA/V TGITHEPHIPQVENGSQQLDDV PALGVENWRIFMAERMEAQG GQRLLLSTMHEEYEFVSPSSVAI AELVALFLEGLKERSIFAMALQ DRKATEGGPVGLTKKQGLLAS ENWTLGQNDRTGKTGLVPWH CLYTIHTVTKHSDSCCTAVPTL LEASSGCIFMSYKKHITLTPKSA DSNKRPTLGSQFKQSLDQLMK ILTNCQPYFIRCIPNEYKKPLG FSDSFMLIKLIRIDKVQYDSFSYI

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14637	45005	A	14723	1	1197	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSRKTLMTHQSTCPKH RASRVGPSNSLQNKQTVKKGD QTSVRRKRNDLKVEERHKNHH LARELTSSAAAASPTGHAAATA QAPQRHVEVGRAAAPAGDLGE GIVGEQVLGAERLVGPDASRAR ALCVLGDRREAGHTAEMTAAP PAQVPGPGGPTALRRPSSYLGL GVDEQNPMSVDGDEDDVRVQ HQELRDCLIKHTILIRGEFVTRS LNIAQAADRRDAFVKGIYGALF LWIVKKINAAIFTPPAQDPKNV RRAI/GLLDIFGFENFENNRIIRT LCWRYREARC
14638	45006	C	14724	1	1032	
14639	45007	A	14725	1	4960	MSTTSIFQQLNLLSHSHKQKQ QIQLPNGRSRYSCLMMAAFRMQ YFLSLPMKSLILVGFERLQAIAR SQPLARQYQAMRQRTVQLQAL CRGYLVRQQVQAKRRAVVVIQ AHGQGMAARRNFQQRKANAP LVIPAEGQKSQGALPAKKRRSI YDTVTDTEMVEKVFGFLPAMI GGQEGQASPHFEDLESKTQKLL EVDLDTVPMAEPEEDVDGLA EYTFPKFAVTYFQKSASHTHIR RPLRYPLLYHEDDTDCLAA
14640	45008	A	14726	86	370	RTWMTHVWRRRRVQAAPTAY SSFRPGTSPCPAQPRAGARA*TR SGTSIMPTGFSSHTSCLTVPPFT ASSAGQHRQRHRKTTAAGHPT TTGAASF
14641	45009	A	14727	3	455	MQSVLPAGVVSSTRASSRSVTL SSPSTSTNCRGRKSSRVTS SGPGGGGGGPGSGRFGIDPPRK FAAAGSFSTGAPSSVMVVRVSG MPSLSW*QYP*SCSTLGCRSRSS STISLSSLWA/VQPIAAPYPPELA TQLPISCR*SPSPCAPS

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14642	45010	A	14728	338	1782	NQLSK*KAHSIRT*TALQQSSGR SQICIVQSSADALPSSRCTNPSS FTPTPLPPRPHPRCTSTLGCRSR SSSTISLSSLWAASR*QPLRTPN SRTQLPRSWPLKSTALSPPPPGQ ATRLCWWMVSSK*RTWMTHV WRRRRVQAAPTAYSSFRPGTSP CPAQPRAGARA*TRSGTSIMPT GFSSHTSCLTVPRLHCVLCWTA SSTPQESSPGGWTRPWPSWRRRC CTCTGAGRYLQNSTAS/T/PVPS TSVSQTAPSPKEDYRCWPSYHH GSLPPFSVQPG*GCGMSVRAMP SVGPLWSPTRPPGQIKRQNYLL NYWSCWKMTLLAGIIPSS/GS RPADLDYFLGSSQCPRDERTLK GHVSCDPTSSISITGEKLKQKLE S/SSTLADTKSAFLQDSWT/SSLP TLGASAI/RTTSAS*TDQCPPAP GPLHVSF/SLNSTYPSRLCSSTCS TVDSFQIIPMPN*MPFSTCGAFC WCLWFSAITALYFVM
14643	45011	A	14729	148	1040	WCTGSQFSKGTWEILLRKKPSL GNVGALPCVATACLTTVEKRA PRGHPLAPVLGDICPKVGSMSS STSEL/CTWGNFEFWGRNKYNH WF*WGWALLHQFKMGKAQG LQEASFYRKDTY*ATMP*NPIG ISEFGTLALPGCKNVFERFMS RFELPGKAAAMTDNTNVNYVR YKGDYYLCTETNFMNKVDIET LEKTEKMWKPRFRGICPQLQG CSVTEQGFESDDAKSWALQH PKRPAQQDWAMSRGNQGWAN LGLKIIRGEAVTTTRAKEVS VVLKVLEVTGDKVWAREKKLRDSR
14644	45012	A	14730	189	507	AAGADTSQPGGGPPPSQSQR\ PKSPSAGRKGSQSPQPQKKGL PSPQGTRKSAPSSKATPQASEPV TTQLLGQPPTQEEGSKAQGMR* PPQRLGASTQQQTNQEAA
14645	45013	A	14731	2	356	DGVSLCHPGWSA VARSQLTAT SASWAVCWQGCGETGILLPCW WECEKVQPLWKQYGRLLSCEDH LNS*VQVILTTPPILFPKWHL FTFPPTGQKDSSFSTTLPTHCPG GRGCSELSRHCTPAWVTE



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14646	45014	A	14732	1	408	FFFFFYTTFFLFFYFYFFEMESH SVTQAGVQWYNLSSLQPPPPRF RRFSCLSLPSS*DYRCPPHPAN FLCF**RQGFTLLAKMVSIS*PH DPPTSASQSAGHVLTSTK WELNI EYTWVIKMGTA DTGEHKN GEG WE
14647	45015	C	14733	262	536	
14648	45016	A	14734	179	745	TDCLHNRCHRSPRSPPPGPPG*R SRADWWRRGRCWGSWCASSR RVC*RCPAPSASFCCRSRGRQ GRTFPPSPCPAPD*TQVPVSPGDS TRPCPPSPPAHRAT/GCCGRR RLPGNASYLASPGKEAGEFPAS QGDS*PGQYGYIGDSSS/RPTRG TWMKASTPRHPIAPQICGA*G FGEHQEVPVREK
14649	45017	B	14735	1	1164	
14650	45018	A	14736	35	542	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSGLHTKGAL PLDTVTFY/KDYGDKLNMESE KYKLDKESYPVFYLF RDGDFEN PVPYTGAVKVGAIQRWLKGQG VYLGMPGCLPVYDALPGEFIR ASGVEARQALLKQGQDN
14651	45019	A	14737	11	908	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSG\LHTKGA LPLDTVTFYKVIPKSKFVLVKF DTQYPYGEKQDEFKRLAENSA SS\DDLLVAEVGISDYGDKLN \ELS\EKYKLDKESYPVFYLF EGDF\EEPSSHYTGGs*RLGAIQ RWLKGKG VYLGDGLELVCT V*LTPWSGEFIRA\SGVKARQAL LKQGQDNLSSVKETQKKWAEQ YLKIMGKILDQGEDFPASEMTR IARLIEKNKMSDGKKEELQKSL NILTAFQKKGVAEKEEL
14652	45020	A	14738	3	227	
14653	45021	A	14739	1	424	
14654	45022	A	14740	1	207	
14655	45023	A	14741	2	352	
14656	45024	A	14742	1	441	

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14657	45025	A	14743	1	461	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFPQNTWYAAIDL ANAFPSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTLDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLTPWEQVP
14658	45026	A	14744	1	928	
14659	45027	A	14745	283	1074	
14660	45028	A	14746	450	1970	VRVLSPVEKELKLWKNTHKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD QPFTRTVTVHWGKGYDRFTWGL LDTGSELTLTPGDPKHHCPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPHIGSLTGIMVGKAKWKQ LELPLPRKIVNQKPYCIPGGTVE ISATIKDLKDAGVVIFTTSLFNS PIWPVQKTDGSRMTVGYRRL NQVVTTPATAAAAPDV/VVSLLE QINTSPGTWYAAIDLANAFPSIP VHKPHQKQFAFSWQGGQYAFT VLPQGYINNPALCHNLIRNLD HFPLLQDITLVHYLNDIVLIGSA IKWVMHSS/DSIIKWKWHVHDR AQADPEGTS*PGYGHFWCPIC QQQRPTLSSQYDTIPWAISQLPG DRLIIGPLPLWKGQKFVFTGIDT YSGYGFAYPACNASAKTTIMES QNTLSTLMVFHTALPLTKALTS WLKKCSSGLMLMEFTGLTMFSI

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14661	45029	A	14747	1	2589	MGPPYKPPTTWPPQTLSYHSTT PVKQLQSLSLPPTAARGATEPCH LQAPASSVQQMTTPAPGLKHL GGKSQMCLEQDGRSGSVRGSP CHAGHWVAGAGFGKGTTRTW GHVNLIVPPNCPTASSSAARDS APNQPLLGVVTAQIVPTCPA MTVQELIAPLTLPPAAGCRRGV RPFQTRVWLLAQLLRARLGGP GEGVVTCHSWRLERVAPRLAS LWWALAAETAARLDWAAKRP SAWGSIKAAEFSSKATPRLEGA SSRTLWVSYIAKETTTGKNGP VEPSHLWEAYCRATAPHPAVH SPSAEVITYTCGIVNLLLQGLVP KSHLEHTGCHVVVELIICSVV LPLISRLSDPDWIHLVLMVIFSK ARDPTPCPASGPEQPSVPTSLPL IAEVQQLPEGRAPSPVAAPGFLS KQIQDALCALEGSQALEPKGGE GSEGVEAEGPGTETETVLPVST LNFCEPIQIDIADKEIEQGEVTT VTALLEGLEKTCSSRPSCLEKD LTNDVTYLDPTIFSFEPLSSPDG PVVIQNLHITGTITAQELSGTGL QPCTRYTVKCETSLDGENSSLQ QLAYHTVNHRYWEFLNLQ/SH QEKKPDL*KFIKNIEKMVVS VDNLKTAFPCSESQGPTEELSE AETESKSQTEGKKARKSRLRFS SSKISPALSVTQAQDTILYCLQE GNVESKTLMSGMESFIEKQTK
14662	45030	A	14748	478	3507	SKILRAVIWGSHLVRSAMKTET VPPFQETPAGSSCHLNNLLSSR KLMAVGVLGWLVIHLLVNV WLLCLLSALLVVLGGWLGSSL AGVASGRLHLERFIPLATCPPCP EAERQLEREINRTIQMIIRDFVL SWYRSVSQEPAFEEEMEAMK GLVQELRRRMSVMDSHAVAQS VLTLCGCHLQSYIAKEATAGK NGPVEPSHLWEAYCRATAPHP AVHSPSAEVITYTRGVNLLLQ GLVPKPHLETRTGRHVV
14663	45031	A	14749	1	417	
14664	45032	A	14750	34	350	RERGQEGGVAGRVEDVSVVE RGAYADQIWGRPKGGESRGEK RKGRWVQVRALRARVTPAGL GECKWGRGRGD*VRRVKPRAL RERWGDGSTVSDSTPMKPGLE

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14665	45033	A	14751	1	1604	MASKRCIRDFRSRGGKLSFQL YATFRKEGCGPVLANGNPGGG RGQEVSAQTDLRRGWGIASSAS RFPWRQSWPGRPRLGNYDSGA PGEAKMPKSGKDKKKGKSKGK DTKKLIKTDSEVVDRAKANASL WEARLEVTELSRIKYRDTSRIL AKSNEDLKKKQCKMEKDIMS LSYLKKQDQEKDNMIEKLKQQ LNETKEKAQEEKDKLEQKYTR QINELEGQFHQKAKEIGMIHTE LKAVRQFQKRKIQVERELDDEI NDLLVKEKIMQLVQQRSQIQT QKKVVNLETALSYMTKEFESE VLKLQQHAMIENQAGQVEIDK LQHLLQMKDREMNRVKKLAK NILDERTEVERFFLDALHQVKQ QILISRKHQKQIAQAAFNLMR EHVQEEQNIPKSEHLMAESTAPI V*IRIFWRPKNGHILKEMWILEI *PGSRRKKYCDCLQK*MAVLL GNTTQSSRPSSSRTMLFLDSGET KEFGDESKLQDKIFITQQIAISD VFW*SGATHYSKRTSGV*HSGK SESLQPRGQRLI
14666	45034	A	14752	95	473	
14667	45035	A	14753	168	449	

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14668	45036	A	14754	1	2000	MAFEQAKQVVKLALDLWPIGD GPVELQVTVLDQHANWSLRQE QHGKRGPLQFTDVAIEFSLEEW HCLDTAQRNLYRNVMLENYRH LVFLGIVLSKPELITCLEQGKKP LTVKRHEMIAKPPGQKNWEKQ ALPLTGCLTKYPSWAKNIDIIVT CSHFARDLWPEQSIKDSFQKVT LRRYENYGHDLNLFKKGCESV DECKVHKRGYNGLNQYLTTTQ SKIFQCDKYVKVIHKFSNSNRH KIRHTGKKPFKCIKCAFNQS STLTTHKKIHTGEKPFKCEECG KAFNWSSHLTTHKRIHTGEKRY KCEDCGKAFSRFSYLAHKIIHS GEKPYKCEECGKAFKRSSNLTT HKIIHTGEKPYKCEECGKAFKR SSILTAHKIIHSGEKPYKCEECG KAFKHPSVLTTHKRIHTGEKPY KCEECGRAFKYFSSLTTHKIIHS GEKPYKCEECGKAFNWSSHLT THKRIHTGEKPYKCEECGKGF KYSSSLTTHKIIHTGQQPFKCEE CGKAFKCFSLTTHKRIHTGEKP YKCEECGKAFNSSSLTAHKRI HTGEKPYKCERCCKAFKRSFIL TRHKRIHTGEKPYKCEECGKGF KCPSTLTTHKTLAEIHAGKKPNK *E/ECCKAFKDTALTRHKIIRTG EKPCEFDECRKAFNQLSTFTKY
14669	45037	B	14755	269	1131	
14670	45038	A	14756	2	149	ALFRAGRQECLSLKLCPPPL SPTCFVPGR*GFYLHFFQRCAA QRGGI
14671	45039	A	14757	2	175	

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14672	45040	A	14758	1523	2667	PLLVIHRQTGSGEDLQQTPADL QQRDLLERKLTNRNE*HQHQQ KRHPLKNPTQMSP/CIKDQRYIN PRSTIKLELGIIKLTENCTTTWK LNNLLLNDWCWEKQERSKTDTL TSQLKELEKPEKTSKASRRQEI TKIRAELEKEIGTRKTLQKINKCG SWFFEKINKIDRSLARLIKKKRE KNQIDTIKNDEADITDPMIQT TNREYYKHL YANKLENLEEMD KFLDTYTL PRLNQEEVESLNRPI TSSEIEAVINSLPT/KKRSPGSDR FTAIFYQRYKEEL\VPFLLKLFQ TIEKEGLLPNSFYEDSIILIPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHHNQIDFIP GMQGW\FNIHKSINVIRHLNR
14673	45041	A	14759	640	1771	APVARMTA/PLFYTALLVFSAL GNILALCLTCQKRRKINCTGIY LVHLAVSDLLFTVALPGRVVC YVLGSSWPFGKGLCRLTAFVL YTDYGGVYLMACVSVDHYPT VVC AHWGPCLRTAGRARLVC VAIWTLVLLQTMPLLLMPMTK PLVGKLACMEYSSMESVLGLPL MVLVAFAGFCGPVGIIHSCYM KITWKL CSTAGRTQ*PAGKDTT GGASPGGPSDQPEKTPPAGAAQ EDPVT PRERTPPAGQPERTQ*PA GKDATGGTAREDPVTSRKGRH WRGCLLTLLMLVAVVVCFSY HLNIQFMARGMLHLPSCAER RAFLLSLQATVALMNMNCGI/D PIIYFFASTHYRKWLLGILKLKG SSSSSSSSSTLY
14674	45042	A	14760	1	401	MVLVQWLTAITSFAFWETQNGK SLQFEDKWDFMRPIVLKLLRQE SVTKQQWFDLFSLGATLQDSSG PLLTGKLKKRKVSGTKY/IEAS SATSLKATTDTHLLLYNPFWI PLTLI*HLCWLQRFA*SCDTPH P
14675	45043	A	14761	184	2720	
14676	45044	A	14762	34	251	
14677	45045	A	14763	2	452	LQIEII*ALEELAAKEKANEDAV PVCLAADFPSAGMGSSCDGQE DELDIKSRAAYNVTL/NFMDP PKIPHLKEKPYFGMRKMAVRW HHAENLVDRPQEESEDDSHLE GRDLDTWHVGVKISWDVKTGP LATPQGDCYFMLGNLWRTKIIL

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14678	45046	A	14764	1	1701	MPFKCKKQHTFNKTSPKEGAI FTHGCLCTSPFNSEHLGNL KLSSWEHLHRSQQTLVRLH VPTQPVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLILREASSVSEELHKEVQ EAFLTLHKHGCLFRDLVRIQ GK DLLTPVSRILJGNPGCTYKYLNT QLFTGP\FPVKGSNIKHTEA*IA AVCETFLKLNDYLQIETIQALEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEV DIKSRAA YNVTLLNFMDPQKMPYLKEEP YFGMGKMAVS\WHHDENLVD RIQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSEGLI SAFHSRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRC DKKSLLTLVRKINLQ GK RDGGRSATNQQSQPHLDNTGL ERQLEQKVGRCSRSPWRGLGHL EGNAQKGHLLHGVNKNQHL LRRHGV SIRAGRAPHLAAADT APGRISCLGHSEALKPRIQAGGL GAESIWQVLWEGGSNSSVFCR HDEEPAELPLPGKQASGGHM
14679	45047	B	14765	16	1462	
14680	45048	A	14766	89	566	MEQGSITQAWREDALVLTKQ GLVSK\SSPKRPHVCHILK\APFC CSCTQHVGQSSSPR*ANPHIRRE STPIAMSDQLQRLQYQFYQIPG TCLLPEVTEKNQGRICMVTDL ETLVHSSFKPISNADCLVPVELE GTMHQIHVLMRPYMDEFLT*M EEMF
14681	45049	A	14767	1	305	LSGLEMFQAGAGAPSSPGY*GS CWAISWSGPPDKHSNRGASCG LETWAGAAATDTAGPHPAAGR C*A*AGSGGDQGTGSTAPLPAT P*PLQSLV*AAALPA

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14682	45050	A	14768	1070	2653	SLKPCMACL*HS*EKTLSOSSG RSWICAVSFVSPGPAAAPLPEL SFPLRPGYTKLLPHATEEVSPFG SGAGRKLGPMLPSTAELCPGTR ARWSEGYRDLGRQAQDLQAG RKS VVTWALEGHPREEERAAA KVQQCQRMWEGCSDPQELIPR PGRNPDPVPDSAVALLPWGPSR VPDLGPDSEHR/PAHSRVQYWL HKAPAPPSPSPQLAEPATPPTRP SSPGSRSPSSWHRLRSWSLNAD PW\RP RPADLP PGNPAPPSRGG A HGTW GKDVRPLGRGSR LFSVV CGRREVQRAARRV GTTGPGWR APGREREASR*QPPGTG/PASP MGRASSSGSRVSPGPIRRTAPW EGCSCSRHHWGKGLGPPDGE PG\PGSS*VAQPTVGGRRSLGPG GAAPARDAAAATPPGDAAARE GSGRHLRAPASRPQHQRSPRS HPPASATTASLQKFRSASSEPPS EDRPFDFSP TAPPQCPRVAPSAG AR*R/AGGRLPE/PR/RPGPWGG GSRTNLTIPTSLHGPTPAAARTS PHRKSR
14683	45051	A	14769	748	1073	SQHFGPRWVDRLRSGVRDQP GQHDKTPSLLEMQK\IAGRAGG CL*SQLLRRLRQENPLNPGGGG CSELRSGLCTSVWATGRDSI*K KKKKKKKRKPWSLLSLIVLQF
14684	45052	B	14770	59	466	
14685	45053	A	14771	2	3184	HRTGIPGSTISSPGGETVPEMTA AMRERFDRFLHEKNCMSDLLA KLEAKTGVNRSFIAL\GVIGLVA LVLV\GYG\ASLPLQPLLGFCY PA\YISIKAIGE/SPNKEDDTQW/ V*TYWV\YGVFS\IAE\FFSD\IF LSW\FPF*LHG*KCGFLVGWCN GPEAPSKWGLKLL*QAASSGPF LSLEATKSQIGQVLVKDLKDQ GPKETADAIH*KKPKKSLP*ILL G*KKKKK
14686	45054	A	14772	14	455	PQFPCRRFRALSEEELDNEDYY SLLNVRREASSEELKAA YRRLC MLYHPDKHRVPELKSQAERLF NLVHQAYE\VERRRTPAEIRE EFERLQREEREERLQQR TNPKG TISVGVDATDLFDYDEEYEDV SGSSFPQIEINKMHISQ
14687	45055	A	14773	328	479	



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14688	45056	A	14774	15	1095	KVAKMATALSEEELDNEDYYS LLNVRREASSEELKAA YRRLC MLYHPDKHRDPELKSQAERLF NLVHQAYEVLSDPQTRAIYDIY GKRGLEMEGWVVERRRTPA\ EIREEFERLLREREERRLQQRTN PKGTISVGVDATDLFD RYDEEY EDVSGSSFPQIEINKMHISQSIEA PLTATDTAILSGSLSTQNGNGG GSINFALRRVTS AKGWGELEFG AGDLQG PLFGLKLF RNLTPRCF VTTNCALQFSSRGIRPGLTTVL ARNLDKNTVGYLQWHCSSL QVQRPHRNTRACAPEPSFRPFL HVPTWDAECSGARTPSTAWTS AAVKLREACLSGPGSGSHQLLL LTPRSKRRTGGG
14689	45057	B	14775	508	1765	
14690	45058	A	14776	2	639	GRRRHRRRHRDCSRGDCYLPT GTNTQQPLPPPREPLPEL PARTP DLSMQNSEGGADSPASVALRPS AAAPPVPASPQRVLVQAASSNP KGAQMQPISLPRVQQVPQQVQ PVQHVYP AQVQYVEGGDAVY TNGAIRTA YTYNPEPQMYAPSS TASYFEAPGGAQVTV AAS/SPP AVPFHSMVGITMDVGGSPIVFS AGAYLIHGGMDRPELLANL

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14691	45059	A	14777	1	2091	MKPDDNSTQNEGGQSFEERHE TLQRVKFRGGPKTAPGRKLI AF LGQMNSGTSGGQRPVGEELM AGGATCLPNTAEAHQPIRMKNL HTPAFRLCPLTLQDNEADAFW HQA FVDWGMPTGKKPQTLGLT YKTT HDLSMQNS/EGGADSPAS VALRPSAA/APPVPASPQMLPLE LVILGVV/PLDKCIPAWSKEG QTNSYTYNPEPQMYAPSST/AS YFEAPGGAQ\MVGITMDV/GGS PIVSSAGAYLIHGG/MDSTRHSL AHTSRSSPARSFRSNSKAPSSRK FCC*LPTLSSKTL/SLFSKNLLRK LPLGKHSPDSVQWPWIYGLLV AGSESLASLLFPKASSSGETLGF ATGQLAGESRLPSLLAFILVPID VAWGKEQLVTQTTVYRVQGS GQHLNKA WQEPALVNICGMGE KVDVQVGLCQHRAHLDGWNS SRAASVWPGETLTHHQDQCQA NLPPGIETSILGTKGARYPSPQE QGGGRVWLERLDPRG/AVSGT DL*CLPQSDVPPGRA*SGGTGD KSISTHDKSGRGNSKYHY/YGIR LKPDSPLNRLQED/TQYMAMR QQPMHQKPRWCRAELGGAGSP LGMEDVSHVFPEFPAPD/LGSF LLQDGVTLHDVKAL/QLVYRR HC/EDVV/MNLQFHYIEKLWLS FWN/SKASSSDGPTSLPASDEDP EGAVLP/KDKLISLCQCDPILRW
14692	45060	A	14778	94	3006	RTRSLTRKAMAEHAPRRCCLG WDFSTQQVKVVA VDAELNVFY EESVHFDRDLPEFGHVL DVHG VHVHKDGLTVTSPVLMWVQA LDIILEKMKASGFESQVLALSG AGQQHGSYWKAGAQQALTSL SPDLRLHQQLQDCFSISDCPVW MDSSTTAQCRQLEAAVGGQA LSCLTGSRAYEFNLVCDRKHLK DTTQSVFMAGLLVGTLMFGPL CDRIGRKATILAQLLLFTLIGLA TAFVPSFELYMALRFA\GL

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14693	45061	A	14779	1	710	MGPAAGAPTSRASRGPRAPALR AAVGRRCPRPEMPCQCHPLAR CGLDPAWTQLPQETAGAPRQD PRCTNQLICEHLPLEGLGFGYL GNKDSLRLHVKKVAVDAELNVF YEESVHFDRDLPEFGGLASSAV TQSSS/DDLQQVP*SLQSLHAA* SLQTNASPFTFEHSFLGKRHPK GAGQKRAESPTRPPLRLQEAAP GELQRPLPYGTQVPAGLCPSVS GLRLRARALLPYRTHSLSV
14694	45062	B	14780	1	252	
14695	45063	A	14781	73	198	
14696	45064	A	14782	762	1080	AGRAEMQQERESHEEAKDPSP LSPREGSQKQQNVNTSTPSHC PR/PPLRMPPPAPRRPVP/CDHPR AEECERKAQHWQAAPPAAPVR DPLGEASWAPESGGDVESLYI
14697	45065	A	14783	1	309	MTKTEREQNEQLDGGGYGERL GEYSLFLLCVPELNLQGCERV SSYFGMNLSGVLKLPFPPTRE SWPPPHFTGTPHNHHGGVSNG ALGCAQRCSLHHAATNAGGWER GGVSNRLFFLLSASFSDAKIK PAPSPIDHLRAEEC*/PPPLSQPP ALVAWCREHLWAHPKAPLLTP
14698	45066	B	14784	1	471	
14699	45067	B	14785	1	1143	
14700	45068	A	14786	1992	2205	WRSMGLRKRQLASQISYCP WS\CP*EESHCRVSPAPLA*LL SPCPAPQQRSHDPPFPFKHFP LPFSG
14701	45069	B	14787	389	973	
14702	45070	A	14788	287	525	TNPFNLLQH*KKP*CYTYISITD PTDACHKNKAFSSPAVSQLT/CI FSSTAGSFFVLSGHSCGHLAVFS LWPRSPQLPGTR
14703	45071	A	14789	475	616	
14704	45072	A	14790	1	704	MTKWKSNPQIHMELORTL NNLEKSNVKTYKAKIFDDNLI QLTFQQHRQDRDTEQEKKEE EREKRKQQQEPLRKKAKMQTV RPGFDLTQGPNCCLTPHGKTWSR LPPKNHRRPYTSRPEGPRVKA* NHGPEGRRGTRLPPEAAKRAQ AEEAAQ*WPTRSTLRLEVT PRA MPPSPSEDPRVAGVHPAPPRGP RSDS/APLRPQLRPPRSFLSLASE PAAAGNARGRHSVLALY

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14705	45073	A	14791	200	408	SPHLMSINLITFANFLFPCE*RNS QFLKS/SIFVMWMIHNGMKCRQ LDTCHCRHGTCCKDSICPGLEES PLP
14706	45074	A	14792	240	771	GRGMQSPAQVDPAAKRGNIAG HTAHLWPKGGTLPLCF/YHLLI MQIREQP*SSLEYPTF/RILSLVS GTKLNKILANRIRQHIKKLIHHN QVGFIPGMQGGGLPTPGSEQGHL RVSPSSPSSTVTLKLFNFMEPF NLNLSKGKASVHTITQENTDSL KVQGSQFSQGHEKRTLDLKVS
14707	45075	B	14793	1	1557	
14708	45076	A	14794	150	1668	ESDARQGPFPLENTRPHPSCMQ NHGICRSLHPGLCGCPPTARDA APATAGGVPAAY/GPLTGAPPG* LPGAGIGSKQSSTMGPSGAGSC LGL*APSQPAD/PGSIQGVLVIA DTE*PLVGGDGGLEAEHQWQ* EAGP/GGLIPKHMNPQSRQQSLF GRRGYRDSSLSRVLGRGTGQQT* HAELGAGVMGPGGNGR*GH/G PRGLPCLVQGRRGPGVA AVAA GVSVA VPSGMLSENGPGCSK/P HSGDAGQRRGLREN*GVRALI WGAASSFLLTEQDLQELADCL HSGRKTCCFFYFQGRGDVAPGPV APAHRLAGISTVVPEGPGLCV GEDRQLPG/GNQRAEPPP*L VRS VSSLTGLPALGPRQMPNAGAG NGSGK*RGVRGSGPDWDCTGT HGGAGTGKLLWAGLSLFPLSG KSEAHQQAAGHGYGRGLGSP GRPPRSRKGRVLGSESAPA*GSP QPLRSARQKPESSCPRQQQPVG RGPGAPLEAGHCSFPRPLGPAR SLHPDFPQGLQA
14709	45077	A	14795	3	374	RRPPSWG*RGCSQLPECAADGS LEDHGPLPPMVSCFSRHPAGR LRFVPPSPLLA VDCCWHNNSYV VA VDCCSATSCSLLLYPSQEFPP HKFLVYLVL SWHQLLGLELIC TQQPVNPVVS DG

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14710	45078	A	14796	73	890	MSLVRTDGKVSFPHSRAASSPP PRFAGSLPWTPKGHGFTSFPRL EGYCPS/REGPSDWGRNSFRVSS WAWRPSQGVSHHTPGQGP/PSP GNRDK*VATRKSPGQPGSSPEP GWSLQSTSSPGATRTKGNLNTL KG*KQVVD*WVGVTGWEGS GAPQSPQPSREWRLSPRGVGVV KETWSPWSGR*APPCGQPQG QQTHMERGGR*G*QVGACGLG P*GQWSSVTNGKDTRAPWSPPP RQRNGRWPAPPPFTFHHYYYYY YYYYYYYYYFFFGGE
14711	45079	A	14797	273	678	TEESTSVLSVPNQTGAGAARIGI VSLRLCGLYVTSPRAARMHIR PHGPWPGGSHHENGEGAPES/E GAPASASGRGAPEGQAWPPRD AVLSSLMLALFRTKSARHLVLG TRQTAASPPFFSQPSWYCSLG VDGG
14712	45080	A	14798	551	743	PTRITRSAGSSSWGSCRPRAPAP FSWSRPCLQGPRG*CRGLHSRF YAAP*VQGHVPVHILPYSKFRRG RAALRPRGQWGLDSVLGTAVC GCCGP/RSESDICSGR*GPE/WYIS PPVPPHVHRGFQQL\NCARQVG KGGGGPGCPMLGNH\SSQVGL GLGGQDQDSLESPGRVSSPSGP SAASDPGG*GFQGNPDVHPAP APPDW

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14713	45081	A	14799	705	2299	KREWRPRHHPLGPPPRCAGRSA PLSGPASPFS*WLP PGHGPGCR MCSRAARGGDV TYRTHNTRAP SCPSLHWVGERG*DAHTRTPSC PSLHWVGERG*DAHTRTPSCPS LHWVGERG*/GCPHSLQLSFP PRSAGCCKALFEAEKSKGDTGL GKRGWAGGGAGGAARPCICNP TVPCPQSTQSPPV/PPGTR*QLG SSASHSRAASSPPRFAGSLPWT PKGHGFTSFPR/RGGVLPFPEGP SDWGRNSFR\GPAGPSMW*PAP PSDAQVGHGPGRAGLQRCRGR GGHTPFVLA AAAIDSAYFS**/D P*VFGSNFPHLSCFP GCGEGN Q*ARRRPLAGAAALPGPNLES WVCELSVAGPAVWDPVPSP/GD PTTGPESP/RNSAGACGAQGSM R*T*GTPATWSL/GPPPELPGSR HQRQCECGPAHVQRERMPGW ACMLKSVAQRGFQRR*QLSKA QAAAWRV\PGGR\GAGKD*GW RRWGVSRGGGGLCCARGGGGS SVRRGEVEGS/GCARGGGGCAG WRALSPSSLPISGAQELGS
14714	45082	A	14800	1	267	CSAGGPWRAPQPRRFHRRRRP AQLPPPLPLPPLPASPRIHNRTF\ PRPSQRTPPPAALGCPEPGS/RS QGRGHARPPGSGEGDPTVSSPG
14715	45083	A	14801	218	430	
14716	45084	A	14802	9	201	
14717	45085	A	14803	1453	1936	EVEKHL CQG*ELLRAQHN*AA ACRRPRPPAPGPQCSAGGPMAR APAPQVPPPPPPCSA\PPPLPLP LPAS/HAHPQPHFRHGRRSALLP RPPWAVRSRGALAGPRTRAAA GLRGGAGAAPAPADARFPASSP AE*PKFPQNSARALTGFPRCTD PTVSSPGY
14718	45086	A	14804	1	580	TSGCSHSLHKPAGVSTRPPTVA SICAPRRTSPLRRGSLTLWFPF GGHLTLLETP\GFDSCPEEVEGP RFSTFKTS*ARGGRRQRCAPRG RREVGPPSAAESGRARGEPPRC RLLCRG GK/DPQPRAGEGEGAAA GTPEGSRAGASGSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR CVWGEPGGRRLFPDE

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14719	45087	A	14805	279	1148	ALHEFAMSRSLHASLH*S**STC P*QQPAPAPAGEPRARFP GKSSS ASSGPG/WPRNHGKQLHLPAQP Q/QQGRISSPRVAGGSGCTGRA LLLAAGLQNSTRSLNPRDPPTIL SHRPLQGM/PDAP/RGCSHSLHK P/SRS/TPLSGQL*PPSAPHAPAQ APSVAGPLPCGLSPGDT*RYWR LLRFDSCPEEVEGPRFSTFKTS* ARGGWRQSRVWASARGASTL QASVQGR*NPQPRAGEGEAAA GTPEGSRAGASGSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR FLGGCLL
14720	45088	A	14806	765	4270	SQDTPGDLQCHGDL*DGAVLS EAPGGERVPRDD*GGVCEGVP HVSLLRDSVAEALQPRGEAGG DQVPEAHARPPSAQR*PAGAGL RLHPPAAGGVPGQSGGHLPKIQ DDLTSKS*TNSITKTLFPNKVTL SDSGRA*ILEGHRSTQGSLGLEA DPGTVSHHQHPCPPNAATHHF HRTARPGVQQGPGPASVQQPES DGDGALLRSPCSLLPQGADEVL LQPDGDKQGGPRGRDSESD*G YSERR*AQDEYQGH
14721	45089	B	14807	133	2943	
14722	45090	A	14808	1	814	MEEELLRELLYSENWWSIPYND TIQELCCWAVLKRTFINGNTSR KPGMKMVTGLKKQERRSKQW GCEKEAKFVPDMWIVLEVGRP EERGIDGKRWGKSCSVEQSVW AFQNPIWSKAQTLLNSMK/AYE KGKEGVEEKFEARRSWFMRKK AISHLHNMEMQGEAASADVEA AVSYPEDLAKIIDESDYTKQWIS NVDKTVFYWKMPSTRFIATE EKSMPGFKASKDSLTPLLGTNA AGGF*LKPLITYHSQTSRALKN YAKLTLLMLYKWNK
14723	45091	A	14809	123	515	PKQSAKTIWTSTARPEDVVTCS FKEEFLPGNTHHDFSINKRSDPE LEVSRPLARPENFPANRSHSLLE L/RPCRGRWAAHWTGCSSLLD ASSAPRTDQPSLWRNLPTASLG GPWSHNQPGIVFQNTYLMKWP

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14724	45092	A	14810	279	1136	VDVDLACVRGLLCSCDEFLSW LALNRTVLATPALPSCLSQMAS SLPGLCARTRRGERADSQRGTC AFFSPARTASQAPLVASSVRKQ RVWAPNPLNCHTLPPSRGSQRG GYIGEEGVFGSRVVGIVVPGPN GSPWPLGVQR/PECVLLGVGSG S/SSHSELFSEADFISRL LAPSPSP APAS/MGNAIEEEAPELGPLGRV FVDDFHVDYNFIHLHEDLCYGP LEGPDL DLAGTGDRTPPLHSRP RASLSPSALRCP*ALGF/WSLA WGSPNSSSRVPEAQPPAPSLAE
14725	45093	A	14811	1	1597	GGRKAAVGVETRPQGS AQPTW LPVHGDTCTLLLP CRAWWR GGLPWAASVVGAKCVWTPPER GLMLHKPMPGWSSGYRVVLP AVAFFRLRAQVTKLGEEVSLRF LKREAKLCGFLQKSFLALEKR MKASESSRLKLEGLRGELESR WEKLRGLMEERLRALQGQHEE SHLLEQCQGLDAAVAQLTKFV QQNQASLNRVLLAEKAWDA KGRLEESRAGELAAAYVQENLE AAQLAGELARQEMHGELVLLR
14726	45094	A	14812	150	1625	CLGKAFSCRELNAYLR LPTFFIV FSLRQPSLRMH SRAWVKTCGA MPCSCCRIRHCSSVTDMAVRSL ALLQLVNRTPLRRRQISAACQR MSTFLFFRACTF*PRNRSSSGRH /DLTARPRQAILRQNFLK/RAQS RNL TAPNSPR**LLVKTYRQTS RPVSAAH*CPR*RGRAALAAAC HSGSPGARRQTAGPAEGPAR*T RRDFL**RAACLRRRWKWP E*L *RSRSSSP*SQGSCPPALPAPRR CSAGSRTGPAARWC RAGAGSR RHAGSSSA***SRR*GRSASGRR PRHGGTAGSGRWLWWARCPA *AGIPWPSWPCHSSWP/PQSVRV VSSG*RASLHSPGLDSSGGGLQ SFLLVQLPAQGKTSSQPRHAA APSAAACPHAE*CTLGSCPRSA TLSPTPPRASPPAGVRS AVSPCPP GHEGVLVISKHHL LLSRSGRG LGGNVVRPCSVQPM DGVGQEL AVADRDQLPCLVCQDGECPK ASGRPVLGCP



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14727	45095	A	14813	921	1446	ACCISHGNLWHHLDQKHGLQS *GEKSRLF SRPNLQVPVHTGLD HRARYLTGPRKQGH LWPTGPS SVFDNENFCKLSVGM* TGRASA RQQIQSPFAESGKA FSDICS VSL RLCVL PHPWNSRLRSPALRNSL KYSVTSSAAARRKLLPLASGPL RLGPRSLPTRLQVLRWEKVASA
14728	45096	A	14814	1	675	
14729	45097	A	14815	1	2341	MASDLVNRCEACDLPQGPISVH QFPRLSNEVTTTVGRNSES PNQ RSVSGPWTPREVRRGVAAA AH GFSGQNAKWAAHIPATAMSFA LPYSVLHSPHALTTHPLNPGDA VTMPSWTSTVSAANASKGRSFS QCFQSTEEGQERRRPRTS QAKV QQGSTAGKVNELITLAGHIKSQ APHGKRKPPRDSHVICSMLRK RKPDETPSPSSDAQFSGMLAVA VSSLLCPRSSPSQQWHCHSPSTT ILGSSDVSDTSFQPSTKLGPVHG FPPQSRDCILDFELIRKVTGAWS SLTAGSWETKIQEFSEEDILAPH RITPGPHSSKSPVHFLASLWGR KTKLYHHTIQDKEPRSVPEAGS SGRRDGGGAAHSM LCM APEPD HPGSNPNCRSPATLHADADGN LQREAAKCGDGTQVSTHVDH TSAPRQAETGPATGENEKMESH GRSKRGLVGADQCPAETLDSY TLLVGHKRDKDRQTPGPAPQ VNSFVPENYLLRGPLAPLGS AIS MKTAGAVHIRPSGDLGRAPAP AVRPRPRPRRPRRLLP GPAHLP GAPRPPAPAPLSRRAARQSPAA AAAPPPGCE/RRG/PAGPASGAG PPAPAHGARPGGKPAANPPRAP QP*P/RRRRSRRRAQPRPGPAPL SRMRAEGPARALRPPPHYQPEL GPPSETVGPVTELLAPIPTARFP TRSHYPVVTASPARSS*TSGLD*
14730	45098	A	14816	44	455	HLNRNRTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPTYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP

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14731	45099	A	14817	1	279	IQDIGMGKDFMTKTPKAMATK AEIDKWDLIQLKSFCTLKEITIR VNRQTTEMYP SDKGLISRMLP NF*RLFPAS*KKPPLFDIGKTEK TNYS
14732	45100	B	14818	1	2025	
14733	45101	B	14819	1	3570	
14734	45102	B	14820	1	1380	
14735	45103	A	14821	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNikleEETTVKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTD SLFNKWC WENWLAICRKLKLD PFLTPYTK INSRWIKDLNVRPKTIKTLEENL GITI QDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIHKSGNNRHAPFSIH THIMFGSLYLQIQKDSLILGFW YPRGILEPIY

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14736	45104	A	14822	1	1698	MEDEMNMKQEGKFREKRIKR NEQSLQEIWVYVVRPNLRRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKMS RAAREKEIQTIREYYKHLNAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQRQSESQI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNIRPKTIE TLEENLGITIQDIGMGKDFMSK TSKAMSTKAKIDKWDLIKLSF CTAKETIKVNRQPTKWEKIFA TYSSDKGLISRIYNELKQIYKKK VTNNPIKKWVKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPV
14737	45105	B	14823	91	1596	
14738	45106	A	14824	1	2757	

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14739	45107	A	14825	1	2677	MGKKQSGKTGNSKKQSASPPP KEHSSSPAMEQSWMENDFDEI NKIDRLLARLIKKKGEKNQIDT TKNDIGDITTNPTIEIQTIREYY KHLTYTNKLENLEEMDKFLDTY TLPTINQEEIESLNRTITGSEILAI INSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILLN SFYEASIIIPKPGRDTTKKENFR PISLMNIDAKIFNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR KSINVIQHVNRTKDKNRMISID AEKAFDKIQPFMLKTLNKLGI DGTYLKIIRAIYDKHTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLARAIRQEKEIKGIQL GKEEVKLSLFADDMIIYLENPIV SAQNLLKLISNFSKVSRYKISVQ IPQAFLYTNNRQTESQIMSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTKKWKNIPC SWAGRINIVKMAILPKNWKKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATATKTA WYWYQNRDLDDQWNRTEPSEIT PHIYNYLIFDKPDKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNIRPKTI KTLEENLGITIQDIGMGKDFMS KTPKAMATKAKIDKWDLIKQE SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRIYSELKQIYKK
14740	45108	B	14826	1	1186	
14741	45109	A	14827	1	2304	
14742	45110	B	14828	1	2995	
14743	45111	A	14829	1	3095	
14744	45112	A	14830	1	3654	
14745	45113	A	14831	1	3189	
14746	45114	A	14832	1	2064	
14747	45115	B	14833	1	3031	
14748	45116	A	14834	1	3192	

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14749	45117	A	14835	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRKINLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQE QTHSKASRRQEITKIR AELKEIETQ
14750	45118	A	14836	1	3144	
14751	45119	A	14837	113	1336	PTLAGTGNQETSHLGFNAIPIKL RMTFFTEL/EKTTLKFIWNQKR ARITKSILSQKNKAGGITLPDFK LYYKAIVTKTVWYQNRDID QWNRTEPSEIMPHIYNLIFDKP DKNKKWKGDSL FNKWCWEN WLAIYRKLKLDPFLTSYTKINS RWIKDLNVRPKTIKTLEENLGN TIQDIGMGKDFMSKTPKAMAT KDKIDK WDLIELKSFCTAKETTI RVNRQPTWEKIFATYSSDKGL ISRIYNELKQIYKKKTNNPIKKW VKDMNRHFSKEDIYAAKRHMK KRSSSLAIREMQIKATMRYHLT PVRMAIIKSGNSSRSNIVHSVT QANALESSWIPLFLPHIQYISKP QASSFKMYHVTDPILPPSSQHL DQAAIINLCLQWPLLWFECMCP SKIHMLKLTTPQ
14752	45120	B	14838	1	3127	
14753	45121	A	14839	1	2742	
14754	45122	A	14840	1	1998	
14755	45123	A	14841	1	3030	
14756	45124	B	14842	1	2558	
14757	45125	A	14843	1	3828	
14758	45126	A	14844	1	4134	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTSQ
14759	45127	B	14845	1	3555	

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14760	45128	A	14846	1	3345	
14761	45129	A	14847	1	3451	HTKNPSVHHHRQRPKVDKTTK MGKKQNRKTGKSKTQSAFPPP KERSSSPAMEQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRSLRN WIKSQDPSLCCIQETHLMCRDT HRLKIKGRRKIYQANGKQKKA GVAILVSDKTDFKPTKIKRDK GHYIMVKGSIQQEELTILKIYAP NTGSPRFMKQVLSLQRLDLS HTLIMGDFNTPLSTLD
14762	45130	A	14848	1	2606	MVASRSSRVGVFYGGQNSVDG VSRSDGSLNELCLYRPTGAY LAYDTLDVLP SGQFTVNTPPID VNGKSLALLWEHTSLLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLD RSGRSRLDAAQHL RHRPDRRPQGMVGVLTNQKEP RTRWIHSRILPEVQGGTGTVPSE TIPIDRKEGILPNLFDEASIILIPK RGRDTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICKSINVIQHIN RTKDKNHMIISIDA EKA FDKIQ QPFMLKTLNKL GIDGTYLKIIRA IYDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSAYKINVQKSQAFLYTN NRQTESQIMSVFPFTIASKRIKY LGIQLARNAKDLFKENYKPLLN EIKEDTKKWKNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLHY KITVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLPFLTPYTKIHPRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMAAKAKI DKWDLIQLKSFCTAKETTIRVN
14763	45131	A	14849	1	2862	

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14764	45132	A	14850	1	3724	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14765	45133	A	14851	2	2375	
14766	45134	A	14852	1	2376	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKGREITNCLSDHS AIKLELRIKNLTQNRSTTWKLS NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLTRLIKKKRE TNQIDAIKNDKGDITADPTDRQ TTIREYYKHYANKLENLEEM DIFLDTYTLPRLNQEEFESLNR P ITRSEIVAIINSLPTKKSPGPDGF TAEFYQRYKEELRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRNIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDIDQWYRTEP LEITPHIYNYLIFDKPEKNKQW GKDSLFLNLWCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKTLEENLGITIQDIGMGK DFMSKTPKAMATKDKIDKWDL IKLKSFCTAKETTIRVNRQPTK WEKIFTTYSDDKGLISRIYNELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAACKHMKKCSSLAI REMQIKTTMRYHLTPVRMAIIK

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14767	45135	A	14853	1	1576	MDKFLDITYLPRLNQEEVESLN RPITGAEIVAINSLPTKKSPGPD GFTAIFYQRLISNFSKVSGYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDRDQWNRTEP SEIMPHIYNLYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLKSFACTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKHKMKCSSLA IREMQIKTTMRYHLTPVRMAII KKSNN/R/CAPGTPERQNHSL WKGS*SQEPSGLAQWIPLWSP AS*DPLA*NSCCQHSCLKSTWD AQACARKLRTLKGYRNCQLE
14768	45136	B	14854	328	1467	
14769	45137	A	14855	3	3412	
14770	45138	A	14856	1	2907	MDKFLNTNTLPRLNQEEVDSL NRPITGSEIVAINSLPTKKSPGP DGFTAIFYQRYKEELRIKYLGI QLTKDVKDLFKENYKPLLKEIK EDKNKWK NIPCSWVGRINIMK MAILPKVIYRFNAIPIKLPMTFI ELEKTTLKF IWNQKRALIAKSIL SQMNRAGGIMLPDFKLYYMAT VTKTAWYWYQNRDIDQWNR EPSEITPHIYNLYLIFDKPEKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKI



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14771	45139	A	14857	1402	3004	TEPKTKTT*LSA*MQKGPLTKF NNPSC*KLLIN/IVLEVLARAIQ EKEIKGIQVGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNILCSWVGRINIVK MAILPKVIYRFNAIPKLPMPFFT ELEETTLKFIWNQKRARIAKAIL SQKKKAGGITLPDFKLYYKATV TKTAWYWYQNTDIEQWNRTEP SEIMLHIYNYLIFDQPEKNKQW GKDLSFNKWCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKTLEENLGITIQDISMGK DFMSKTPKAKATKAKIDKWDL IKLKSFCTAKETTIRVNRQPTK WEKIFATYSSDKGLISRIYNELK QIYKIKTNNPIEKWVKDMNRHF SKEDIYAAKKHMKKCSSSLAIR EMQIKTTMRYHLTAVRMAIHKK SGNNSLIVGASMDTSLLSGPIPY DIQHFD RFGSVTVRRGCAIEFY

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14772	45140	A	14858	884	2925	GIKYLGIQLTRDVKDLFKERS/Y EPLLNEIKEDTNKWKNI PCSWV GRINIVKMAILPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR ALIAKSILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRDI DQWNRTEPSEITLHIYNYLIFDK PEKNKQWGKDSL FNKWCWEN WLAICRKLKLDPFLTPYTKINSR WIKDLNVRPKTIKTLEENLGITI QDIGMGKDYMSKTPKAMATK AKIDKWDLIKLSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKTNNPIKKW VKDMNRHFSKEDIYAAKKHM KKCSPSLAIREMQIKTTMRYHL TPVRMAIHKKSGNNSPTCVSQD WKL TQAVGLWSAEAEAPKSAQ RRPLAEGHRAAVQRDGSGLQL LCTVKLQVLPCIIAQGNNGRKA TSSLEAELTSWRPLCLEDGTGF RGEDTLETVNAEGRENRRKAG HRAAGSSASRRCRNTGRSVQRL RPQKTQAFPTHCHFCLILVVKA TQLNPKSRVRKVPFAPMKHGK ALAGPWANICAGKSSNEIRTC RHGCGQYSAQRSQRPHQGV LCSAGSTVYAPFTGMIVGQEK YQNKNAINNGVRISGRGFCVK MFYIKPIKYKGPIKKGEKLG TLLPLQKVYPGIQSHVHIENC DSSDP
14773	45141	A	14859	1	2577	

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14774	45142	A	14860	3019	5574	RETRGEVKNSKNQSTSAPPKDC SSLADPKKIQTITIREYYKHLYPN KLENQEEMDKFLDTYTLPRLN QEEVESLNRPIITGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASIIIPKLGRDTTKKENFRPISV MNIDVKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNHHSI NVIQHINRTKDKNHMIIISIAEK AFDKIQQHFMKLTNLKLGIDGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKIGTRQGCPLSPLLFNIV LEVLAIRAIQEKEIKGIQLGKEV VKLSLFADDMIVYLENPIVSAQ NLLKLISNFGKVSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WVGRINIVKMAVLPKLPMTFFT ELEK\TTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT ATKTAWYWYQNRDLDDQWNRT EPSEITPHIYNYLIFDKPDKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKQESFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYSEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYA AAKKHMKKCPSSLA
14775	45143	A	14861	1895	6140	
14776	45144	A	14862	1	2875	MKAEIKVFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLEKEKQEQT HSKASRRQEITKIRAELEKIQTQ KTLQKINESRSWFFERINKIDRS LARLIKKKREKNQIDTIKNDKG DITTDPTIEIQTITIREYYKHLN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIITGAEIVAIINSLPT KKSPGPDGFTAIFYQSWAETQP KKENFRPISLMNIDAKILNKILA KRIQQHIK

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14777	45145	A	14863	2843	4460	HQHQQKPHPHRNPIQKSPTSKT KVLEVLARAIRQEKQS/GIQIGS QEVKLSLLEDDMIVHLENPIISA KNLLQLISNFTKVSGYKINVQK SQAFPYTNKTQIENQIMSELPFT IATKRIKYLGIKLTRDVKDLFK NNYKPLFKEIREDTNKWKNIPC SWVGRINIVKMAILPKVIYRFN APIKLPMTFFTELEETTLKFIW NQKRARIAKSILSQKNKAGGIT LPDFKLYYKATVTKTAWYWY QNRDRDQWNRTEPSEIMPHIYN YLIFDKPEKNKQWGKDS\LFNK WC*ENWLTICKRLKLDPFLTPY TKINSRWIKDLNVRPKTIKTL EE NLGITIQDIGIGKDFMCKTPKA MATKAKIDKWDLIKLSFCTA KETTIRVNRQPTKWEKIFATYS SDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSKEDIYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRC WRRCGEIGTLLHCWWDCKPVQ PLWKSVMRFLRDLELEIPFDPAI PLLG IYPKGYKSC
14778	45146	A	14864	1	8335	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSADEMNEMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLDIYRTLHPKSIEYTFFS APHHTYSKIDHIVGS
14779	45147	A	14865	1	3166	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLDISRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEITNYLSDHSA IKLELRIKNLTQSRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDAFKAVCR EKFIALNAYKRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEKETQ
14780	45148	A	14866	1	3912	
14781	45149	B	14867	1	2832	

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14782	45150	A	14868	1944	3531	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLAIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARMAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNLIFDKPKDNKQW GKDSL FNK WGWENWLAICRKL KLDPFLTPYTRINSRWIKDLNV RPKTIKTLEENLDITI QDIGMGK DFMSKTPKAMATKAKIDKWDL IKLKSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKHKMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCCMRKNTK TLI
14783	45151	A	14869	1182	3891	KMIKGISTDLTEIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNR PITGAEIVA IINSLPTKRSAGPDGFTAIFYQR YKEELVPFLKLFQSIEKEGILP NSFCEASIILIPKGRDTTKKENF RPISLMNIDAKILNKILAKRIQQ HIKKLIHHDQVGFI PGMQGWFN IRKSINVIQHINRAKDKNHMIISI DAEKA FDKIQQHFM LKTLNRL GIDGTYFKIIRAIYDKPTANIILN GQKL
14784	45152	A	14870	997	1161	CTSTVIMSICTKLQNEHVIEAL RRAKFKFPGHPKVIHISKK*DFT KFNADEFED
14785	45153	A	14871	1	1458	
14786	45154	B	14872	53	1468	
14787	45155	A	14873	1819	2235	

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14788	45156	A	14874	707	1613	VRARAGERARVVRENGKAELP VALVLP SRALSHTFTCTDLKVQ FHQRLRLQEKSGKFIGSNMSQE SDNNKRLVALVPMPSPDPFNTN RAYTSEDEAWKSYLENPLTAA TKAMMSINGDEDSAAA/HRPAL *LLQENQSEPIPREGVGWG*GE ER\ERMTEEEQEGEGGGGGGRGG GEGEEEEEEEEEDVEEEEEEEEE EKEEEEKGGEKEEENEKEKQR EGRRGKETSNGQMVRPRLPP HQEHSRNYLVFIMDSNMIEICF REASISPKAQAYVLIPDFKNCIY GWEEDSIEILWGLPGSHVL
14789	45157	A	14875	3	346	QRSKSKCVPLGLKPLTLPPKPE K\PQQQKDRRPTGFKP*N*RRRR SEKSLRFFPPGS/PQAVPIPVGFS FDTNL*HFL*KPLIFIMGGTVSL PHPRSPSAPPQTPQRPMTFCHLK Q
14790	45158	A	14876	1868	2666	GLLLSPFQGLQGVAPRKTRSNL HPGSLAHLHQPPAPWPPRGLW PPGQETSCHCASGRALGTGSPR PPHAPWLHLEPQGRAPHSGAPSP GSSPSAPLHIPVAPENLQSLGHR SPPNPSGPDCCYPSPSGP/PPSSLD SPGLQTAPGAMFLSPRSGVQSA CPTPRSLDLRNSPASTPDQSVCP TPLSLAWLWPPPSPTSAKSLLFT LTSEVQSFSPTPIPPGSSDPPLSK QPASGSCLSSSGHLTSPSVPRHSP WPRSSPQNPHSWTLPS
14791	45159	A	14877	762	1528	AIPGGAAWPFRAEGAQGPGRK LTFKPLGAQRQSVSGGSEVPPL PLHLKMAPEMPVAL*SPGTGV HPSLLPPT/GPKVPPGRIDRGVPV TLAPQVGTAPIQWHCRGSRCP G/SRPPGGWR/RPCQAPAPPLGQ HLPRLLPPPTGPQGPRPLTPSEP PPWSCWLPASPPAGPGSRRVGG GPGTCQGLLRS*GLLLSPFQGL QGVAPRKTRSNLHPGSLAHLSH QPPAPWPPRGLWPPGQETSCHC ASGRAVGTGSRRPRA

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14792	45160	A	14878	1	963	MARKDCCSPPGDSSPGRLPLVL PAQCLVLLRLQITAFSSIHVAAN DMMSFFLMAKQDSIAYKYRIFF IHSSVDGHARPLSPSLVVENG GKQVFLLCSDNASPEVSTVALA SCPGTFPRHCGAAESTHICATG LGELTPQGHGHIPNKLCACCAT GLEELVPRDHGKLGISWFGFIA GAYLNLARVVGECQGSYGYS LHHYCYCHYYHYCHYHYHAA TY*NHYYHYH/HNNNSYHHH SYHYHYSYHFYHYYYNCYHHH YHCRHYHHPHDYYHYHA/RHY SLYYCHYLCHYYYRCYHDHSS HQHNHHECLP*VRHSAEHLQY
14793	45161	A	14879	105	1448	CHQPPASPFSSRREPGGSEKPPER GCPAWEPAQAQGPVQPLGEDGP RLCQPPPPSPDHALG\PYGHQRS GRPTLPGRK\PAKKRGR*PSSS TGQ*SHRPTTGTGGQAGGSG* VTAGGQ*PPQNL*AKISCEMP GPSPGMQQGVKHPSLFSHQT AKGFTTRWNCRQVCPhrGERK WISSVRPCGGALAPSCA/DGLR GRRTLSGSQPLW/PPAAVSAVG QLQPPCHTLTPHPLQNSTQHAE PQRGSVYSL*EGTSP/LAAVPFA PHIEKRPFSTFPAGDA*PSEAHA/ PGPACCHSPGGLEGVPSRAGPG TSAGR\PGNGRERAWPPHSGPS TPPDTSCG/SPGPQLARAGSRRRA NGSTLPPTRQGFLPGRKDSAGA CGQP*AEGAAAGPSRSPAER AVLPLPR\GRRKCRGGGPGVET GVSGARRGGDRSGCSPAALDA EAPASLAGVSIREG
14794	45162	A	14880	1	2421	

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14795	45163	A	14881	1080	2571	VHCRFWILALCQMSRLQKSPLL FNIVLEVLAKAIKQEKEIKGIQL GKEEVKLSLFADDMIVYLENPI V/SAQNLLNLISNFSRVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTKKWK NIPCSWVGGRINIMKMAILPKVI YRFNAIPIKLPLTFFDLERTTL NFICNQKRAPTLPQVQSLS\QKN KAG\GIT\LPDFKLYLQGLQ*PK TAWYWY\QNRDIDQWNRTEPS EIMPHIYNLYIFDKPWEK/HKQ WGKDSL FNKWCWEINWLAICR KLKLDPFLTPYTKINSRWINDL NVR\PKTIK\TLEENLGIT\IQD\IG MGKDFMSNKT PKA\MA\TKAKI DKWDL\KLKSF\CTAKETTIRV NR\QPTKWKKIFTTYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKKHMK KCST\SLAIREMQIKTTMRYHLT PVRMAIJKSENSRCWR
14796	45164	A	14882	136	420	RESRNLSRGEESDPAEPSRNG *EHPLCYLQ*EFLQVLTMLQAE GTMHHFRSICQVNRNFLERGH/ SPPSPA PPPETHGTGSPRPPSGRSR IRAYLH
14797	45165	B	14883	1	1197	
14798	45166	A	14884	3	538	GAGTDGGRTAPAPRAFPDPLGEA RTSAPTGPARP GGSASAARPA VRPAEPAAEETQEOPRAGKRAI HEYRYVYVQQRKTDPPQPAVA VFGIPADGD*VSR TAYHAHQPL AWSGR/E*MCLSMAMWNT*ST MKK*ISIRVISRCSGPVHRTN*QI PEPVRAWRF LICRCICFSPGRWI KT



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14799	45167	A	14885	1208	2765	KMAPTWDKMVSSAQMGNLQ ALLEQLSQDELSKFKYLITTFSL AHELQKIPHKEVDKADGKQLV EILTTHCDSYWVEMASLQVFEK MHRMDLSERAKDEVREAALKS FNKRKPLSLGITRKERPLDVDE MLERFKTEAQAFTETKGNVICL GKEVFKGKKPKDKNRCRYILK TKFREMWKSWPGDSKEV/RGY G*EIQDADPIQQPQGASRALPY TVVLYGPAGLGKTTLAQKLML DWAEDNLIHKFKYAFYLSCREL SRLGPCSFAELVFRDWPELQDD IPHILAQARKILFVIDGFDELGA APGALIEDICGDWEKKKPVPL LGSLLNRVPLCIENKLGVGGED WGDQLRVYWWNPSKREGGSG WSHGSEDANQSLKHLRLSANV LLDEGAMLLYKTMTRPKHFLQ MLSPWETT LAQIIMLDWAEETS SDKLKYAFYCSCRELSRLCPCN FEELVFRDWPELQDDIPHILAQ ARKILFVIDGFDPLGGRTLWTL TRGHLRELGNRRKRCPSWGV
14800	45168	A	14886	213	625	EPGIDTSCLCAGRCSPGKGRA CGGSSPCSWPGQPAPPAAAAV PACPSGGRGAGPIQSGTCCSRS ADSRCTSWTAW/WPPGLGAAT VQTVMS*TV/WPMHPVPQAGW LALGQGAAAAKHPLTSATTRS WCLGVGPGPWM
14801	45169	A	14887	1	375	MCNAQVLEYMGKSSSLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLEQGISSLMERLHVMETQ KKQERKPPLVIPRQT/WVWSGP PANSNRPA AEGPDC*KEN*RDA LRLRNSFSGHDPQHHTIDSLEQ GISSLMERLHVMETQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL

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14802	45170	A	14888	1	750	MGELNQGSWRQGHLPDAAN GIAIRVPRRRKDESRKNPTRKPH SWKPTKNFEDDVEVMKRSMISI RIEDTHSGPSAAGVLEFAGGPL QTLFAWVSPAEEAEQRLLPVP /CLWKLCPRGAPARC/RQNSPSK LPSGFVYTVRGKLPQTQASVVVD APPATKLECPRSTSDCCAGSKN FKPVDLSLLASVGPRVNLQQES SHYGKISVTVAGHCPTHATGRI LGKQALRWSPMCSMFIGRALG LVPVEGGLLQIA
14803	45171	A	14889	81	164	VGKQGLEWTPANSSRPAAEGP DC*KEN
14804	45172	A	14890	1	674	MVVYACSPSYLEAEVGGSLSE VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFKYFGI YLTKEEERLKPSRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/WVWSGPPANSNRPAAEGPDC QKEN*QTERNSINIKKKDIHTKT PLCI
14805	45173	A	14891	619	931	YLLMDFPLLHSLVSLGDKVP HEFWRGCPSCSFGPRFWVAGV LVL*APKL*LRQVRSAGKRCGQ KW*IK*/SDRLCVD*NK/WSDS LKPATSCSLIVTCHSLLGF
14806	45174	B	14892	1	658	
14807	45175	A	14893	48	288	LCSIKKPEKSLLCW*YPGNRVW SGPPAKSNRPAAEGPDC*KEN* QTERNSININKKDIHTKTPSEGH QHQRPKTKPGRI
14808	45176	A	14894	801	1157	QSGPSAAGLLDFAGGPLQTLFA RVSPAEEAEQRLLPFPSSGKL RPRGAPARCQPELSCMRCR*SL LGGVSQSGYMGVRDPFEEAAC PLSELECSAGRSAALLRMVRQG HLGLLKLRP

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14809	45177	A	14895	1	1891	MPVWVTVVKSWNTQIGRPGH VSALGFELTKNPWPLTYESGDG RSLGKPGAVSRRGGRHGHPHQ QAECDLPAAGRIAGPCERGLERQ EKLPPAPQGGAWHLRLSRERFK SEDAPKIHVALGGSFLLLNLAF LVNVGSGSKGSDAACWARGA VFHYFLLCAFTWMGLEAFHLY LLAVRVFNTYFGHYFLKLSLVG WGLPALMVIGTGSANSYGLYTI RDRENRTSLELCWFREGTTMY ALYITVHG YFLITFLFGMVVLA LVVWKIFTLSRATAVKERKGN RKKVLTLLGLSSLVGVTWGLAI FTPLGLSTVYIFALFNSLQAHKQ LKDRKVGPHFMQGA VFLEGKF WGVDIASFEPQEQFWWTNLGK EDEDKSFDMPHSWVEQIEISPEE EAMGSAQMVRGVSGPERGSKK RPQLTVSTAFETRCPNGKKVIQ YKRAKLEKWAPYLNNSGLVSR LTTYEDLQCTNILEIKEWYQNR EDMLELKHINKTTDLKTDYFKP GHPQALRVHSYKSMQPEMDRV IEFYETARVDGLMKREETPRTM TEYYQGRPDFLSYRHASFG/RPS QEAHSEQCRVKPPAHCAKPAE DDV/RKSACFWSSRSASSCATT AVRTTSRPPSASSCGAPRWTA
14810	45178	A	14897	1	425	HVQQTEISRTVSTGSPHILSCSVP VTLNPGPVLWFKGN/AGPNRKL IYNFKQGNFPRVKEIGDTTKPG NTDFSTRIREISLADAGTY YCV KFIKGRAIKEYQSGRGTQVFVT VSYSSRSQKSEICISGLKSRHQQ NCSFWRF
14811	45179	A	14898	1	393	RQGNFPRAKQIGDTTKPGNTDF STRIREISLADVGTY YCVKFIKG RAIKEYQ/SGRGTQVFVTEQNP RPPKNRPAGRAGSRAHDAHT CLSALPERNSTNYFVQPCCLLR LLGLTGFAVKIIQTGKERTSK

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14812	45180	A	14899	1	753	MGSSLSPLVLYVALPVRQPLLR VVEERSTKMRVGSPGFQAKFRF YSQGLSWSARGEGLVPAFWL QPYPRLNFKAEMTEQKENQT YVDGGFRPYIHRRKNLTEGHK AEKEMEPWDGFSDESCRTHCQ VHDYAKGHGEVQRERVDEQK EHLGGRRQDCQQQHLNRRRLHC /TVSGEAPSEASGSVRGHGRAH GLAGSERHGHDAHAPEHQLLQ SVDADHVVPVAWYQFWDDEG RGILSPGDHKPDRRGAALY
14813	45181	A	14900	6	726	VEGISRTGIQAEQAPGFTTMP VSVNPGDVLTLACNMSALSPE GPVLWFKSIGPGQQLIFSCNGS HFPRVTPVENTMVDQTDYSIILS CSVNTLPNGPVLWFKGTGPNR KLIYNFKQGNFPRVKEIGDTTK PGNTDFSTRIEISLADAGTYYC VKFIKGRAIKEYQSGRGTQVFV TGEYVSYTPYPLVYNSPLWDE ASRGRSRQQSLFCSLHW*YPR KQDLEWTSSKLQQTCCRVA
14814	45182	A	14901	760	978	KKLLLLLLCGIEWHGFSSDSGS GGWVPEG*K*GCEHELLPEDVP SCFGWAECWLVRRTLPLFHYV ELCYSFHG
14815	45183	B	14902	772	1165	
14816	45184	A	14903	1	2133	
14817	45185	A	14904	1	1311	MATTPGRALGSLPTLLLGLTA GQPFISLTGPSHRTSPGDSVPFN CTAVPFNSQDFSRDFNVTWLK DSDEHPASAQRLVPDNGGNDFI TSKAWVTLTRQDVSSEITCEVT HRAEPLKTTMNLQATRN DGTYSLEHTWQAEATLEEREF ACWVVHDEQPPLKANVTLQAAQ VRRQKGKQSVQPYKLQGPLQR SEPGTRIRLTASSGFSTHQVT TWLKNKHELNPQTSVQYSGH TYNVTSSVLVPLMDDVFSHV VCHVEHKLTWFFQKTTGLDQY L/QG/DP*QLCGGHLTLPSAPRAP PQLPGLQHP/VVFHSQVLLFSC VAVTCLVQRFYPQNVHLAWLE DCHTLKGTEQPTLKKNNDRSY TLEKLLLVNASVQGPVRLTC MMEHEGQPPKRALVNSTAAH TAYKPIGSTESIMVTMIITISQM

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14818	45186	A	14905	3	341	RRATRPGN*GGRHNAGRSSARL ETGRPAMAPQGRPRPLGCRT PQ HPGHWPSAPGLLPAPGPVAG MTQAQRWCPEPDAHFLQYTLY FVRHIPQLPKQTPHHYIATRLPC ATQ
14819	45187	A	14906	154	679	GVCCPLLGGVSS*ATWGS GTT* GGNTHLI
14820	45188	B	14907	1	2554	
14821	45189	A	14908	387	826	ARAACLPRGSARGTAGAGEEPP DPAPLHLRGEGPAP/HRPRSPRG MGWPAAPSTRSPST*RRCLPP RPRWSP*SHPGPRASARLP*LS *RASRSSEAPSPGSLG SVAGQD CSRTGTGFSPPAFPSDGGQTPPP APSSVPTLNSLG
14822	45190	A	14909	86	2223	GQEPQVREQKACHHLGSSPPPS WEL*EQRPAGP*N**PSTLTGT GSTTT*QIRMKVN*MGN/DSPQ GKNTPKMYSGEFSPVRVHVPFS LSDLKQIKIDLGKFSDDPDGYID VLQGEDILAKAGAIRHLNIGEG THVCCPLLEEGINPEVWATEGK YGRAKNAHPIQVKLKDSASFY QRQYPLRPEAQQLQKIVKDL KAQGLVKPCSSPCNTPI LGVQK PNGQWRLVQDLRIINEAIVPLY PAVPNPYTPLSQILEEAEWFTVL DLRDAFFCIPVHPDSQFLFAFED PLNPMSQLTWTVLPQGFRDSPY LFGQALAQDLSQFSYLDTHVL WYMDDL LLAARSETLCHQATQ ALLNFLATCGYKVS KPAQLC LQQVKHLRLKLSKGTRALSEER IQPISAYPHPKTLKQLRMFLGIT GFCQIWTRYGKIARPLYTLIKE TQKANTHLVRR TSLQPVAYLS KETGTSLQPVAYLSKEIDV VAK RWP HCLRVVAAIAVLVSKAVK MIQGRALT VWTSHDVNSILTAK GDLWLSDNHNEEKIEHNWQQV IAQTYAAQGD LLEVPLTDPDLN LYTDGSSFVEKGLRKAAYAVFS DNGILESNPLTPGTSTQLAELIA VTQALELEGKREPENPADNASY SCEPLEDLRLLFRRQPIEAVKLQ MVLQMEPQM QSMTKIYRGPLD WPASPCSNVDDIEGTPPKEISTA

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14823	45191	A	14910	929	1324	RRYQVQRPSEGLTVYLFWPV*/ PVVGVDPLWPTGPDVYSLLVPIPP PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPCPSCTPMFHS PCSAMTAVTPSLARP*THGSPP KAQGAPQGVKGPSSGLEAPPW A
14824	45192	A	14911	2	286	
14825	45193	A	14912	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DSPQGKNTPKMYS GEFSPVRVHVPFSLDLKQIKID LGKFSDPDGYIDVLQ
14826	45194	A	14913	1	163	EPENPADNASYSCEPLEDLRL FRRQPIEAVKLQMVLMQMEPQM QSMTKIYRGPLDWPASPCS*DF LGRGAFNVINIGAWASRPVQGS AVDLSHGLHLGLHLKNHL
14827	45195	A	14914	1	287	
14828	45196	A	14915	2498	2788	
14829	45197	A	14916	112	333	
14830	45198	A	14917	329	1666	
14831	45199	A	14918	1	756	
14832	45200	A	14919	1256	1651	RRYQVQRPSEGLTVYLFWPV*/ PVVGVDPLWPTGPDVYSLLVPIPP PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPCPSCTPMFHS PCSAMTAVTPSLARP*THGSPP KAQGAPQGVKGPSSGLEAPPW A
14833	45201	A	14920	1	987	MLVLGYNRKNTGEGTQKQKGT NASDFHFLSQVLEQVVSPKGSK EAQCCVLRHLGCESSESAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLKGKERR QREGERRERKREREREKRESQR KERKREKKGKKREREKDRSDL KQIKIDLKGFSDTPDGYIDVLQ GLGQPPYYLTWRDIMLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQA VP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKP\IN*SMISTI TQGKEENPTAFLERLREALRKH
14834	45202	A	14921	473	1015	
14835	45203	A	14922	3	937	
14836	45204	A	14923	530	612	LQAKVFFLLRWPAILRG*NYGP RGVPH
14837	45205	A	14924	101	430	

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14838	45206	A	14925	1	1587	MAALTLRGVRELLKRVDLATV PRRHRYYKKKWAATEPKFPAVR LALQNFDMTYSVQFGDLWPSIR VSLLEQKYGALVNNFAAWDH PGDIVLDLCAAPGGKTLALLQT GCCLTWSRKRCAALSMFSRPA RCLCRARTTAPRAVRRPDQRR ATAAATKQQARATPEAPGSAA HSSYCTMIPSACCCLPRQLKPPH AQPARSAAKPGLDQPGSHARL RGRGGEARQSLEAIRGGPSGIA PSDIPLPAKPSRRVIAQTYAARG NLLEVPLTDPDLNLYIDGSSFVE KRLRKAGIKAVKLQIVLQMEPQ MQPMTKIYCGPLDQPASPRSNV DDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLGKFSDDTPDGYIDVLQ GLGQPYYLTVRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
14839	45207	B	14926	1	939	
14840	45208	A	14927	1	4317	MQSMTKMYCGPLDQPASPCSN VDDIEVKLEIMLLTERDDGKEV LDVGEERRYIEEYDSKWTRK YNCLAVLRVHSGSQITTMKLIL WYLVVALWCFFKDGKIAASRS GGFSYGSSSSGDLDRKKPLFSL EFGSPGETEDKSRQRQDAGSPK SEDTAGGFFNSSSSSGSDRRTK PFFSLGLGAPGKAEDKSGDSQD AGGSKSEDTTPGGFFYGSSSSG DSDKKKPLFSFEFGATGEDEK SRERWDAGNSRSEDS
14841	45209	B	14928	110	269	
14842	45210	A	14929	1	561	EVFPACSQLVYWGKPITYPLCE NNVYMLSPNASVCLYSPALAEQ FSHQFP SHDLPSVLAKFSLPVSL SEFRNPLAPAVQETQLIQMVV WMLQRLLIQLHTYVCLMASP SEEEPRPREDDVPFTARVGGRS LSTPNALSFGSPTSSDDMTLTSP SMDNSSAELLPSGDSPLNQRM ENLLASLSEH

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14843	45211	A	14930	1891	2522	GLSNQNNQQPGRCIPDAHPVQDL VQDLVHTWCRVPCTSYVPCV* VPGAYLVHTRCIPGAGPGAYPV HTWCRTWCIPGAGFPAL/RPYH ALLLLSDEKSLLGELPIDCSPAL VRVIKTTSVAVKNLQQLAQDAD LALLQAMGSAVALVMWAWP RATGPLKYCLRVGAGGACGWR PRLVAVSRALLLVWRCGSPWG PALAWQKSPEYSTKVLEKQ
14844	45212	C	14931	113	274	
14845	45213	A	14932	1	1634	MEIPAVILTVAPILHLTSCGFPV TGDGLKQAEKGKCAPEEWNPTK FIKLTDNQACFACGLWPLSEIQ RRTSRTVTIISRISALREKGNR KPTSISGSVNEMRQVLVKDQVS MPRVLPITIFVPDEAGFSAGAV WPCAAPLWGSSWTPKVENCS FYIRLSFAISVGGDELKIAKLVS AFPERAYDLVGHQHQRPKVDK TTKMGRNQSRKAENSKNQNS SPPKEHNSSPAREQNWMEF DELREVGFRRSVITNFSELKEH VLTHHKEAKNLEKRLDEWLTR INSVEKSLNDLMELKTTLREL EAYISFNSQFDQAEERVSVIDQ ISEIKQEVKFREKRVKRNEQSL QEIWDYVVKRP\NLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QANIQI/QGKLQRTPTKVASSRT ATPRHIISVGSPLNMK\EKILR AAQRERSGLPTKGKPFRLTAAD LSAETSTSQKTEWGPIFNILKEK NFQPRVISYPAK\LSFISEGEIKYF TDQAKCLRDFVTTTAFSCLP*K STRPALKELLKGST



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14846	45214	A	14933	1	1429	MVLAAGDPVEKGITWARENAG IYISCTMMKLSMIPGDQSYRNL IPLKFVACILIEGNAKCWPLPEF DPSQIRLIVYQDCERRGRNVLF DSSVKRRNEDISVSRIKYLGIQL TRDVKDLFKENYKPLLNEIKED TNKWKNI PCSWIERINIVKIAILP KKLGSDAQVKVFGKCCQLKPG GDSSSLDSSVTSSSDIKDQCLK YQRTVDLSAQLSSSGKGQTTSS SGSLTPMTPHWEIPPSGGQOTS HTGELRLASGRGSSGMKLPEEG TDRNLCCSAASSGDTQANRDW SGPPANTSRPAAEGPDCDRENG TKLENTLKDIIHENFPNIARQAN IKIQEIQRTOQRYCSRRATPRHII VRFTKVEMKEKMLRAAGEKH WVIHKGKSIRLTVDLAETLQA RREWG\PIFNVLKEKNFQLRISY PAKLSFISEGEMKSFPEKQMLR DFVTIRLALQELLKEALNMARE /NR*QPLQKHM
14847	45215	A	14934	2320	2811	ESKLTRGVKDLFRENYKPLLNE IKRGHKQMEEHSLMGRKNQ YREKWPYLPKVNLIQCHPHQA TND CFHRIGKKLL*SSYGTKKE PALPSQS*DKRTKLEASHYLT NYTTRLQ*PKQHRYWYQNRDI DQWNRTEASEIMPHIYTILILWT NLRKTS MGERHP
14848	45216	A	14935	2	872	
14849	45217	A	14936	769	828	
14850	45218	B	14937	1	669	
14851	45219	A	14938	1	807	
14852	45220	B	14939	35	212	
14853	45221	A	14940	235	837	QQAHKTPQRRHSAFTEYVRNN RLPETVIRVKQPALAIFSPDIAPL FVHFRADDDVTARVIHAIIMIF WCDRVEKRVSDAVACFTLESEI AEVGVLCTRTHIRQ*RQVTPARM *ALSRILHACRSEDVRHNRPPYP VIRVKQPA\RRDLAPT*PHCSSIS AQTITSLPGCMREVT/ELRPEFF K*RKTVLRPTPIMRARAERRCK
14854	45222	C	14941	1	1755	
14855	45223	A	14942	1	747	
14856	45224	B	14943	1	2466	

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14857	45225	A	14944	1	333	LNLVLFQQRAELMIS*PQ*FSRA LLVIFPLLQTELQQLFFLLHVN AAVEAPPSVPIGLYSENVNRNR LPETVIRVKQPALARFSPDIAPL FVHFRADDDVTARRVEKRCK
14858	45226	B	14945	1	1794	
14859	45227	A	14946	1183	1899	LNRRDSYVEYLADKVADREED AEEYLEAIMEARVTVAGMGLV MEVQDYFDGEADRLAKAWLA EYTPQIKSLKDERKEAYRQIVE MSTEPQDVDLVRPANKFEMTR VREGEKEADLPVWKHHL/SV*R KRELSGSVEPLGNQVFETKRE NS*EL**KSLKDERKEAYRQIVE MSTEPQDVDLVRPANKFEMTR VREGEKEADLPVWKHLLCDE SGNYPALLNHWETRFLRSKPN VKIHRSSDKSPTYFVFFISQYDL PAFYPINGHFLVERVVKVRIVFI EEFADHHHLAIFQFNNRLQRHA FVVTLANVTNQPFVSVVVVNL
14860	45228	B	14947	1	3099	
14861	45229	A	14948	1174	1545	
14862	45230	A	14949	1	945	
14863	45231	A	14950	62	576	
14864	45232	A	14951	1	1642	MLANIGFYNSNVIHRSKGAIGE GPPDPRGIVEQNLGGDISIPCYN GPRPRRSAQKTTLGPLNQPRIPS AQCAGAFPRVAAAGAGGGGG GGSGSGFCLGWRLRRRRQRR RRWRRGEGEGDGDAGHMRPR PAGRAEARRRRRLRGNPPPGAR LPNREGNGSGVSWAAEVSGDG RGARTEAARTRRRPGGADNYP GAVPPVQLLTGWCVTAKAPPDI SAISALTAVKHGNCSSLTPLLNP PGSDVIVCAEMDEQWGYVGAK SRQRWLFYAYDSLKRKTVAHV FGERTMATLGRMLSLSPFDVV IWMTDGWPLYESRLKGLHVI SKRYTQRJERHNLNLRQHLARL GRKSLSFSKSVELHDKEELAAL FSELKQEQKKVDELIAKLVKNR TRIVNESDVFSWVIRREFQELR HPVDEEKARCLEGIGGHTRGLV ASLDMQLEQAQGTRELAQAE\

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14865	45233	A	14952	1	1513	MIIALQKESLMSLQAQLDKALQ KEKHYLQTTITKEAYDALSRKS AACQDDLTLQALEKRTGRDWNP PPFRTQQRGSKSLTAIRPLCLFR KLNHVTSETKSLQQSLTQTQEK KAQLEEEIIAYEERMKKLNTEL RKLRGFHQESELEVILYEEEMG NHNENTGEKLHLAQEQLALAG DKITSLERSLNLYRDKYQSSLS NIELLECQVKMLQGELGGIMG QLSKTSSDLSKM/RCY/TTW*M WTKLQFIHSILTSVIFHLLSFSSM GSI*KWIMALSGSSFLDDAHYIS QFGPRQLPSVCAEPEKEKATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAGQ*RHRL RG\MDEQWGYVGAKSRQRWLF YAYDSLKRKTVAHHREQGSIK CKLEEDLQEATKLEDKREQLK KSKEHEKLMEGELEALRQEFK KKDKTLKENSRLKEENENLR AELQCCSTQLESSLNKYNTSQQ VIQDLNKSPEIRFQLYIFTPDQ
14866	45234	A	14953	125	363	INVSVWSQPFPGG*QPEKGLKE HPADARPGSCAPPAGRPVQGRA EVASAAPRGSSPAAAPGQSH PCLRAPLYWSFSR
14867	45235	A	14954	306	583	TCSTRRRKNDLSVKYVSVWSQ PFPGG*QPEKGLKEHPADARPG SCAPPAGRPVQGRAEVASAAPP RGSSPAAAPGQSHPPCLRAPL YWSFSS
14868	45236	A	14955	225	407	LRGMVTFSPFSSILNGQFEPNSG CPL/CPVCWVCLREPGDPEKLG EFLQKDNISVHYFCLVS
14869	45237	A	14956	484	722	NTCRCGHNRSPEVNSRRGGLRS IPRMPDAGSCS/PPAGRPSAGPG RRSPPLLPRGSSPAAAPGQSH PSSSQGA AVL

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14870	45238	A	14957	434	1790	GNFFRKTISACIISVLSYLVSCLR GASPTASMDFLKTSKREAAAR ASRKICFVCKKKGAAINCQKDQ CLRNHFLPCGQERGLPFTIFWR VQIIL*QTSP/EHRTSNMGHVGE ESCILCCEDLSPTECLRTFQSPC CSQAIYHRKCIQ/TNMPTHQSK HFFKCPQCNNRKEFPQEM/REN GNSYSRQRCCLGTRARGFLRLI SALSAL*CPHLVCMNKAETALR MKGGGASFCVLHADPTEPTGT APLLDLTVRNGSVRSVHL/PAA TDYIPENSGDIPCCSSTFHPEEHF CRDNTLEENPGLSWTDWPEPSL LEKPESRRGRS/VLLEVQGCQ NH*QLQKIQVTPSE*LLVPHNR V*TCAPPSGLGREHSGTVRQGS RASSETMS/LSKEKSQWSMRRE QSRCQQGNAFMATRVPLLSPL LPPRILPP*SCFHMPLLTSPMFV VMQIKVFSPKKKKK
14871	45239	A	14958	146	484	
14872	45240	A	14959	228	353	
14873	45241	A	14960	214	722	TARELPGRVLKEMYIQK*EGA ALGRPTRPGRQGQVRRAECR RLFRGVLRPCNRC
14874	45242	B	14961	1	951	
14875	45243	A	14962	241	517	QSCGQRLPTVLR/PLRTPWILPM YPQPLPAGGPTPCLRSRPYINITI LKGDKGDPGPMGLPGYMGRE GPQGEPP*GSKGDKGEMGRP RRPVP
14876	45244	A	14963	748	1055	DRKQTSPGDAYHTIPGSLSSSSD HVLSEPD*GEGSHL**SVQHDD VPPTA**RLQY\RAVVLFTATL PAILIM*GMRCPLVPRNCSTW TAQIRAYIEVQQT

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14877	45245	A	14964	1	832	MPHVCAQRRLPVAAVLPPDGA QNCILLAGLSAGTFCHHGGVHI LLSNPVATSLLLVAIDRVGQIPIPP PPPPALPYDCCCPPPSRHTEDRE HVPIPLHWKLMVNRWFLPVPT EWIATLSNSSRSSRSCSMQGLSF LDSQVHLKAMIEDLRGNVSKES SPCLADNADVGGQFPMEGGQKD PKQRIIPFCQGVTNLSGPHGPGA VCGGSHYQKQESSEISLSVGQV WTSSRRMSQVGGSSHCARGARL GPCNVPRRPDGVQDEFSLQPEE DAG*QTSVDPMVLEQYVVVA/ NYQKQESSEISLSVGQ/VVDIIE KNESGWVWFV/STAEQGWVPA TCLEGQMGCMSFLCSLKKML DWIQRVSL
14878	45246	A	14965	1	346	
14879	45247	A	14966	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIHKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
14880	45248	A	14967	1930	5781	RAKSPANIIMTGSNSHITILT VNGLSNPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
14881	45249	A	14968	1	2235	
14882	45250	A	14969	1	2148	
14883	45251	A	14970	1	1821	
14884	45252	A	14971	1	1248	
14885	45253	B	14972	4	2121	
14886	45254	A	14973	1	1137	

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14887	45255	A	14974	1	1240	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNICKSI NVIQHINRAKDKNHMIISIDAEK AFDKIQPPFMLKTLNKLGDGM YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLFSIVL EVLARAIRQEKEIKGIQLGKKE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRLKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMPPFFTELEKTTLKFIWNE KRARIAKSIPSQKNKAGGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEITPHIYNLIF DKPEKNKQIQKAFILHKEPWV MWNMGNTNR
14888	45256	A	14975	1	2241	
14889	45257	A	14976	1	2802	MYGTGYRDVAGKWAIDPDSK REFLDVTQEGIQGCDGSGTCRQ TLSILTQPLRQWGLEGIKKPNS WIISEESVSNGGPPLLIPRQTAS GVDLQQTPTDLQLRVLTVRRK TNKQKGIASSTKRTSTPKPHL YVTIHKDQSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQQ WNKAGRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIWDYVKRPDLRLIGVPD SDGENGTRLENTLQDI
14890	45258	A	14977	1	2739	
14891	45259	A	14978	1	2478	
14892	45260	A	14979	590	727	
14893	45261	A	14980	1	3255	
14894	45262	A	14981	1	3810	
14895	45263	B	14982	1	3127	
14896	45264	A	14983	1	3325	
14897	45265	B	14984	1	1734	

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14898	45266	A	14985	1	2067	MELKTKARELREECRSLRSRCD QLEERSVAMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLHLIGVPETDGENGTKLEN TLQDIIQENFPNLARQANVQIQE IQRTTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTTR EYYKHLHANKLENLEEMDKFL DTYTLPRLNQEKVESLNRPTG AEIVAIIN/SLPTKKSPGPDGFTA EFYQRGVLPNSFYEASIIIPKLG RDTAKKENFRPISLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHVNR KDKNHMIIIDEKAQDKIQQPF MLKTLNKLGDGMYFIIIRAIYD KPTAHILNGKKLEAFPLKTGM RQGCPLSPLLFNIVFKVLARAIR QEKEIKGIQLGKEEFKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSQYKINVQKSQTFLYTNRR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKVPMTFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEITPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKD
14899	45267	A	14986	1	1293	
14900	45268	A	14987	1	3229	
14901	45269	A	14988	1	3352	
14902	45270	A	14989	1	1419	

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14903	45271	A	14990	1	1716	MKA EIKMFFETNENKDDTTYQN LWDTFKA VCRGKFIALNAHNR KQERSKIDTLTSQLKELEKQEQ TYSKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKRQKNQMDTIKND KGDITDPTEIQTTVREYYKHL YTNKLENLEEMDKFLDYTLPR LNQEEVESLNRPI TGAEIVAIINS LPTKKSPGPDGFTA EFYQRYKE ELPGRD TTKEENFRPISLMNIDA KILNKILANQIQQHIKKIHHDDQ VGFIPGMQGWFNIRKSNVQHI NRAKDKNHMIMSIDA EKA FDKI QQPFMLKTLNKLVLVLARAIR REKEIKGIQLGKEEVKLSLFAD HMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFRENYKPLLKEIK EDTNKWKNIPCSWVGRINIVKV AILPKVIYSFNAIPIKIPMPFFTEL EKTTLKFIWNQKRARIAKSILSQ KNKAGAITLPDFKLYYKPTVTK TAWYSYQNRDIDQWNRTEPSE ITPHIYNLIF
14904	45272	A	14991	1	702	



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14905	45273	A	14992	473	2385	HSFLSFIVLMYLTMDLTRSQKH GWASSPSHGTSPWPVRLRTSLA KPCKWQVSLCWLSASPGSSF SLVRSSLLIIVPHAESVSRRPSSL SRVGLFPARY*HRVWQRSPSPQ TRDHLIKRNP SQDV*RRQQPRG TRVSN\KCSLHTSALGIGRQPSC DATL*GQQGLP/VK*KRQQPAP/ MSQQQTGA ALEV LARAIRQEK EIKGIQLGKEEVKLSLFADDDMI VYLENPTVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRITYLGIQ LTRDAKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKEPGWARSLVFGARGLQG QGRCGQSRGGGGSCLGGGGST ENWQHREPSARKTGSTENRRH REPAAPRTGSTENQHREPAAPR TGTENRHREPSARKTGSTENRR HREPAAPRTGSTENQHREPAAP RTGTENRHQEPAAAPRTGGTENR QHREPAAPRTGTENRQHREPAP RTGSTENRQHREPAPRTGSTEN RQHRESAAPRTGSTENRHQEP APRTGTENRHREPSAPRTVGTE NRRHREL VAPRTGGTENRPREP PAGTRPRHTPMRGGSEGALFH QRRFLEPTPDREQLEGIRYPPVA

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14906	45274	A	14993	687	2274	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLARAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARMAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNLYLIFDKPDKNKQW GKDSL FNK WG WENWLAICRKL KLDPFLTPYTRINSR WIKDLNV RPKTIKTLEENLDITI QDIGMGK DFMSKTPKAMATKAKIDK WDL IKLKSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCMRKNTK TLI
14907	45275	A	14994	1	3189	
14908	45276	A	14995	1	3351	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSA MEDEMNE MK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFFS APHHTYSKIDHIVGS
14909	45277	A	14996	1	3192	
14910	45278	A	14997	1	2742	
14911	45279	B	14998	1	2313	
14912	45280	A	14999	1	1542	
14913	45281	A	15000	1	3300	
14914	45282	A	15001	1	1824	
14915	45283	A	15002	1	2982	

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14916	45284	A	15003	1	2375	MSGFLISPKHKHGTNSGIVSWA DVQSQLRHIEAAFDQEA AAVL MARLGVFRAESEEGPDVLRWL DRQLIRLHSLTTLDIVPAGKGE VVKGPMSISQQA KGCQKFGQY NKEDPTSFRLSDSFSLYPQFMF HLRRSPFLQVFNNSPDESSYYR HHFARQDLTQSLIMI QPILYSYS FHGPPEPVLLDSSSILADRILLM DTFFQIVIYLGETIAQWRKAGY QDMPEYENFKHLLQAPLDDAQ EILQARFPMPRYINTEHGGSQK KREKNQIDA IKNDKGDITTEPTE IQTIREYYKHL YANKLESLEE MNKFLDTYTL PRLNQEEVESLN RQITGSEIEAIINSLPTKKSPGPD RFTAKFYQRTNDQKHMIISIDA EKA FDKIQQPFMLKTLNKL GID GTYFKIIRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSLLLF NIMLEV LARAI RQEKEIKGIQFG KEEVKLSLFADD MIVYLENPIV LAQNLLKLISNFSKVSGYKINV QKSQAFLYTSNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYRF NAIPIKLSMTFFTELEKTTLEFI WNQKRARITKSILSQKNKAEGI TLPDFKLQYKATVTKTAWYSY QNRDIDQWNRTEPSEIVPCIYN YLIFDKPDKNKKWGKDSL FNK
14917	45285	A	15004	1	1428	
14918	45286	A	15005	2	1975	

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14919	45287	A	15006	1	3891	MKPEIKMFFETNENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKINTLTSQFKELEKQEQT NSKASRRQEITKIRAELEKETQ KPLQKINESRSWFFKINKIDRP LARLIKKREKNQIDAINDKG DITTDPTIEQTTIREYYKHLN KLENLEEMDKFLDMYTLPRN QEEVESLNRPTGSEIEAIIINSLP TKKSPGPDGFTAIFYQRYKEEL VSFLLKLFQSIKKEGILLNLFYE DSIILKPKPGRDTTKKENFRPISL MNIDAKILIKILANRIQQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIISIDAEKA FDKIQQPFMLKTLNKLGIHGT LKIIRAIYDKPTANIILNGQKLK AFPLKTGTRQGCPLSVFNIVL EVLAWAIRQEKEIKGIQLGKEE VKLSLFADDMTVYLENPIISAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNQTESLIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMFTFFTDLEKTTLNFIWNQ KRARITKSILSQKNKAGGITLPD FKLYYTATVTKTAWYWYQNS MVLVPKQRYRSMEQNRALRN NAACLQLSDL
14920	45288	A	15007	1	4215	MHSCLPDATGEGELYNSLGSLT WSFLSMIGVLLWVDFSGDSIDL CSPLWNRTNLEALQKKLEEL DEQQRKRLEAFLTQKQKVDEL KDDDFEKISELGAGNGGVVFK VSHKPSGLVMARKLIHLEIKPAI RNQIIRELQVLHECNSPYIVGFY GAFYSDGEISICMEHMLVLLQER PCPGFLWMENSDYGLLLPLDLL LCLSFSFSKVLSDLVSDILHGM KARNRSIHGDVVVVVELLPKNE WKGRTVALLCENDC
14921	45289	A	15008	1	2823	

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14922	45290	A	15009	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLEKQEQTHSKASRRQE ITKIRAEKIEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14923	45291	A	15010	1	2816	MEDEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFTTCICDDAEDLQSPSTA GPWFGVLYTKGGPYPQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVLLDGFTAIFYRRYKEELV PFLKLQFSIEKEG
14924	45292	A	15011	1	3347	MGDFNIPLSTLDRSTRQKVNKD TQELNSALHQADLIDSYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNCSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDDTTYHNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKEKQEQTHSKASRRQE TKIRAEKIEIETQKTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDAIKNDK
14925	45293	A	15012	1	3855	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14926	45294	A	15013	1	2559	
14927	45295	A	15014	1	2956	

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14928	45296	A	15015	1	1853	MGRNQSRKAENSKNQSSASSPP KDCSSSPAMEQSWTENDFDELT EVGFRRSVITNFSELKEHVETNL KEAKHLEKRLDKWLTRIKSVE KILNDLMELKTMAQELHDTCT SFNSQFNQVEERVSVIEDQINE MNIDGTYLKIIRAIYDK\PPRNII LNQQKLEAFPLKTGTRQGCPLS PLLFNIVLEVLAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFFTELEKTTL KFIWNQKRARIAKSILSQKNKS GGITLPDFKLYYKATVTKTA/W L/YHTPLSCLPP*WNRTEPSEIIP HIMAVAQIQQVKLLLLQGQHA SSRLQPTSSTKCGGTASSASP RSMGLSSWKGNLASAIHYFPCK PLTLPSRISTSSSSWGCRQAHAV LEVLRWPPGLGWPWWHLTLL HVPPVRITKSNGPRACTRASAS HARHHQYNQEPSLPLHSPLPP PEQVLVSTAERTEDRSYHRTL RHSPYFKNEAADLRGEGYSS
14929	45297	B	15016	1	3276	
14930	45298	A	15017	1	2274	
14931	45299	B	15018	440	3383	
14932	45300	A	15019	1	2646	

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14933	45301	A	15020	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSAEMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLIYANKLENLEEMD TFLDTYTLPRLNQEEVESLNRPI TGSEIVAIHNSLPTKKSPGPDGFT AEFYQRYKEELVPFLCLKFQSIE KEGILPNSFYEASIIIPKPRD TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAFAFDKIQQPFML KTLNKLIGDGYFKIIRAIYDKP TANIILNGQKLEAFPLKTGTRO GCPLSPLLFNIVLEVLAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
14934	45302	A	15021	1	960	
14935	45303	A	15022	1	2928	MEDEMNMKQEEKFREKRIKR NEQTLQEIWDYVKRPNLHLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRMPQRYS SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSMRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDAF
14936	45304	A	15023	1	1782	
14937	45305	A	15024	1	4881	
14938	45306	B	15025	1	5962	

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14939	45307	A	15026	1	2053	MKAEIKMFFETNKNKDDTTYQN LWDAFKAVCRGKFIALNAHKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLLKKKREKNQIDAINKDK GDITTDPTIEIQTIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPTGAIVAIINSLP TKK\SPGPDGFTAELYQRYKEG AVLEVLARAIRQEKEIKGIQLG KEEVKLSLFAGDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKN PCSWVGRINIVKMAILPKVIYGF NAIPIKLPMTFFTELEK\TT*KFI WNQKRARIAK*ILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWSRTEPSEIMPHIY NYLIFDKPDKNKKWGKDSL FN KWCRENLAIKRLKLDPLTP YTKINSRWIKDLNVRPKTITTE EKLSTNIQDIGMGKDSMSKTPK AMATNVKIQKWDLIKLSFCT AKETTIRVNRQPTTWEKIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWVKDMNRHFSKEDIYA AKKHMKKCSPSLAIREMQIKTT MRYHLTPVRMAIHKKSGNNRC
14940	45308	A	15027	3	3229	
14941	45309	A	15028	1	3907	MGDFNTPLSTLDRA TRQKV NK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQNR SITWKLSN LLNDYWVHNEMKADIKMFFE TNENKDDTTYQNLWDTFKAVCR GKFLALNAHKKKQERSKIDTLT SQLKELEKQEQT HSKASRRQEI TKIGAELEIETQKTLQKINESR SWFFERINKIDKPLARLIK KRE KNQIDAINKDK
14942	45310	A	15029	1	4005	
14943	45311	A	15030	287	2708	
14944	45312	A	15031	1	4602	
14945	45313	A	15032	1	4806	



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14946	45314	A	15033	965	5928	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLEKEKQEQTTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
14947	45315	A	15034	383	8708	
14948	45316	A	15035	2	3257	WRKIYQANGKQKKAGVAILV/S DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRMLRQKVNKDTQEL NSALHQVDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQSRSTTWKLNNLLN DYWVHNEMKAEIKMFFETNEN KDDTTYQNLWDAFKAVCRGKFI ALNAYKRRQERS
14949	45317	A	15036	1	3508	MELKTKARELREECRLRSPCN QLEERSVAMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTLEN TLQDIIQENFPNLRQANIQIEI QRTTPQRYSSRRATPRHIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEITN YLSHSAIKLELRIKNLTQNHST TWKLNSLLNDYWVHNEMKA EIKMFFETNENKDDTTYQNLWD TFKAVCRGKFIALN
14950	45318	B	15037	1	4760	
14951	45319	A	15038	1	3110	
14952	45320	A	15039	1	5546	MELKTKARELREECRLRSTRN QLEERSVAMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTLEN TLQDIIQEDFPNLRQANVQIQE IQRTTPQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE

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14953	45321	B	15040	1	4534	
14954	45322	B	15041	1	1826	
14955	45323	B	15042	1	1626	
14956	45324	A	15043	248	1212	NSKHYSRGQKKKLPTLPRAAN SRWRSKI/GFTVSFDETLKPFV RDVSGSRLKDLPKPNKSDDETR ANDAVNRYKLLKKDARTIAAQ QVARLESAMCLRRRWLENFQ LFLVEHPLVRHLTRRLIWGVYS AENQLLACFRVAEDNSSSTADD DLFTLPEGDISIGTPHVLEISPTD AAALLFADYELLPPFRQLDRNS YALTEAERNASELTRWAGRKC PSGRVMGLANKGWIKGEPQDG GWIGWMIKPLGRWSLIMEIDEG FAVGMSPAELSAEQLLSKLWL WEGKAERYGWGSNSTQEAQFS VIDAITASELINDIEALFE
14957	45325	A	15044	1	1788	
14958	45326	A	15045	1	3048	
14959	45327	A	15046	1	3546	
14960	45328	A	15047	969	1205	SPVRCCISAVHRTYHRRTSALL RLAELHRLLEKCASRQWMYEN I*SPFRQIA*CLPYSDHKNQRLH GLDSIFLARLLW
14961	45329	A	15048	877	1248	WPLTVPYCGVGYAS*A*VADN HRAVGYLSRWAGRKCPSGRV MG/LANKGWIKGEPQDGGWI/G WMIKPLGRWSLIMEI/DEGFAV GMSPAELSAEQ/LLSKLWLWEG KAERYG/WGSNSTQEAQFSVID
14962	45330	A	15049	854	1313	DHGVASAATCVYTNEGHRQSY VRVCEYASRTRVSHHCSV*RVL RCEAIRIVSPDRSC*RDPEFSYL ALPENYNRLFLPNSTNQTNNRI KTLNSIAIGKLLAAGGVYNGNI EGFRDTAEKLDGRTIDGYDQIL NEKTAVIAKATA\SILLTKRS
14963	45331	A	15050	1010	1396	KPFGKLTLYKLFEGHAWLVKAE KVRVGYRILGRLTYPFDIRFPAL PFGLVL*KGAHFTVPRIWAGHA C*LMPMALPMFRWKVTGLLFIP ICLVKPSFLTTLIIIAIRISTSTN CRKTPKQPSRWCKPR

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14964	45332	A	15051	361	837	DGQQLIALHRLALRELQQAVH AGLPQQAKILFDGGSEIGKIPSEI YFCQLVKLILCPVLFPCWRRVA ILWRRRDVLFFGGSFSFSA LVSPH LCG/SYLPFVFDVGDRL*LSVG WS\KEIWPCCK*GFGHLM SVLNT PMKSLVEGFKHFPLAGFGYEYL SFFCR
14965	45333	A	15052	1563	1652	
14966	45334	A	15053	2756	2995	AMRSAHRCTVFSALLNCWQITP HLTPSVMICGQLLTLVNRC*PSS TIFSHIPLSKQVARMFRSAMSPL NRARCWKVPCN
14967	45335	A	15054	762	2184	WRAVPSEPISFILKADTEKYVY L*NSSSAQYSGSCTRAYYLDTQ HPTPRLCLIFGGKDSGLMLHLT AELARQMGGKICVLFDWEAQ FSCTINYVQSLRELYTDVIEEFY WDALPLTTQNSLSQYQPEWQC WEPDVEWVRQPPQDAITDPDF CFYQPGMTFEQFVREFAEWFSQ KRPAAMMIGIRADESYNRFVAI ASLNKQRFADDPWT TAAPGG HSWYIYPIYDWKVADIWTWYA NHQSLCNPLYNL MYQAGVPLR HMRICEPFGPEQRQGLWLYHVI EPDRWAAIGSPADREEDAE EYL EAIMEARVT VAGMGLVMEVQ DYFDGEADRLAKAWLA EYTPQ IKSLKDERKEAYRQIVEMSTEP QDVDLVRPANKFEMTRVREGE KEADLPVWKHLLCDESGNYP ALLNHWETKVFEIETKREGFAF WYRNPQYTGQSSLGIA YVEAE QYKIVRPDFLFFAEQDGKMVV
14968	45336	A	15055	2069	2586	PWLENLPVGICWSAVKKMGGT RSLVSL/AVTLVSPQLMNAYL LGQQLPEVWDFGMFSIAKVG QAQVIPALYLVVVVPVCSLILAV FLAHALIGPFGRMIGDGVAFV RHLMTGSAFIGAALFGFLYAP LVITGVHQTTLAIDLQMIQSIGC TPVLPVNALSNI DLWHISILV

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14969	45337	A	15056	356	1205	APASMTFEQFVREFA/VMVFTK RPAAMMIGIRADESYTVLSPSP V*INNVLPTITWTFPQTIYDFLW LIGEAIFF/YLPVGICWSAVKKM GGTRSLVSCL/AVTLVSPQL/MN AYLLGQQLPEVWDFGVCSLIL/ AVFLAHALIGPFGRMI/GDGVA FAVRHLMTGSA/PIGAALFGFL YAPLVIT/GVHQTTLAIDLMM QSMGGTPVWPLIALSNIAQGSA VIGIISSRKHNEREIPGEVFPRT GVGKGKSLG*PLH*LQPYRQHL GAGSYSQTLKKQIAESAVRLSIP
14970	45338	B	15057	1	435	
14971	45339	A	15058	2	1785	WLLYRAHVKGE/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDGVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPFLPGCTGSRILES TPGQMTAAVDVSKAGISKTFIT RNQLTSNQSILMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLD FTNKLIELAFGRVFKELAAANMV QAFTVRAKEVYSASMRYYIVIV YISYRPPNLLDSHIIGFSSITTHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRIHTI ESRCRVCGAHSRDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
14972	45340	A	15059	1	993	

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14973	45341	A	15060	1	5621	MSEKTFLVEIGTEELPPKALRSL AESFAANFTAELDNAGLAHGT VQWFAAPRRALALKVANLAEAQ PDREIEKRGPAAIAQAFDAEGKPS KAAEGWARGCGITVDQAERLT TDKGEWLLYRAHVKG\EGTEA LLPNMVASSVAKLPIPKLMRW GASDVHFVRPVHTVTLLLGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGVIA DYEERKAKIKADAEEAARKIGA KAWGTNVEFHVQNQP
14974	45342	A	15061	82	732	
14975	45343	A	15062	1	3849	MDLGANGWQTFRYVVLPNLSS ALLAGGMLAFALSFDEIIVTTFT AEQVDAAVRAADAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSLQKDLA QDKLVQQDLTDLATLDKIDRI KEETVQLRQKVAEAEPEKMRQA TAALTALSDVDNDEETRILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQLQQIRSLDG
14976	45344	A	15063	219	1186	PPKLGRKRGIFLPSHSNPNTNRI CPNCCMNGVSTANTTSKSSLVI CAWTKHALLNAILQPEQLWKS GSRWRINLALPRGYRESLLQPW QAERLTDDKGEWLLY/RAHVK GESTEALLPNMV/ATSLAKLPI KLMRWG/ASDVHFVRPVHTVT LL/LGDKVIPATILGIQSDRVIAA TGKAKIKADAEEAAR/KIGGNA DLSESLLEEV/ASLVEWPVVLN AKFDEK/FLAVPAEALVYTMKG DQ/KYFPVYANDGK/LLPNFI/F/ VANIESKDP/Q/QIISGNEKSFVR LADAEFFF/NTT*KRLFLPHQKL PPSQILHQQTRNYASFCHRHRD NWTSA

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14977	45345	A	15064	1	1496	SGGCAGLHGGGLCSKEPFQASV QQGVAGHACAPAALQVPVCGT LSDCGSRAASLCENPSFISLYGR LVATSLAKLPIPKLMRWGASD VHFVRPVHTVTLALGDKVIPAT ILGIQSDRVIRGHRFMGEPEFTI DNADQYPEILRERGRKVIADYEE RKAKIKADAEAAARKIGGNAD AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQOI/DRIQALAGWIAE QIGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVMGMHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRIVEKNLNDLQTLT EEAVRLYGDKLTNANVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHALG RAGTGDVVVGVRGRLAIVPLT DGLDEAGHSTGVLQGEVPQRL ERAATVPGVTLQPQALQARGL
14978	45346	A	15065	134	384	VTPTGWRKRRIQWCS DAGCG VNALSGLRFSHSLALFSAAMFI LGVVSGITMSISP*ILSCVRSKNP LLVSGSGPLSCNSTIH
14979	45347	A	15066	1	723	TKSPKIARSRHIPLCHFIFERRPI MTNSNRIKLTWISFLSYALTGA LVIVPGMVMENIADYFNLPVSS MSNTFTFLNAGILISIFLNAWLM EIVPLKTQLRFGFLMVLPVAG LMFSHSLALFSAAMFILGVVSGI TMSIGTFLVTQMYEGRQRGYR LFLAASLFSMAGMIFPMIAAFL LAPSS*W*WVYACGLAYVTIF IMTFGCEFPALGKHAPKSYAPV EKVKWGILGGASSFRAV
14980	45348	A	15067	422	1045	LLEGKLTNRKQ*HQH*QKARPC KKPIQSAQN/WNREEYDELTEV GRRWVIITNSFELKEHVLTQWK EAKNLDKRLQEGLTRITSLEKKI NDLMVLKNTARELHEAYTSINS RIDQAEERISEIEDQLNEIKLED KIRGKRIK/RQTNKQSL*KMWD YVKRPNLRLIGVPESDEENVTE LENTLQDIIQENFPNLARQANIQ IQEIQTLLR
14981	45349	A	15068	1	1131	

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14982	45350	A	15069	383	756	LNPSNKLALINPAASPIIKGVDL TANQI/PCIADIPLYDADVQQE* CFPATVEALGEQIRQADGVVIV TPEYNYSVPGGLKNAIYWLSRL RQILVFLDAMVMNKPEFMGGV IQNKVDPQTGKVIDH
14983	45351	A	15070	343	924	
14984	45352	A	15071	223	308	
14985	45353	A	15072	57	5546	NKMARKKFSGLEISLIVLFVIVT IIAIALIVVLATKTPAVDEISDST STPATRVTNNPSDSGKCPNVL NDPVNVRINCIEQFPTEGICAQ RGCCWRPWNDLIPWCFVVDN HGYNVQDMTTTSIGVEAKLNRI PSPTLFGNDINSVLFTTQNTQPN RFRFKITDPNNRRYEVP HQYVK EFTGPTVSDTL YDV KVAQNPFS IQVIRKSNGKTLFDTSIGPLVYS DQYLQISARLPSDIYIGIGEVH KRFRHDL
14986	45354	C	15073	1	1818	
14987	45355	A	15074	493	576	
14988	45356	A	15075	381	498	
14989	45357	A	15076	48	514	LLL FLLLQSYDWSESGKRQSAL HGRQKGLPKSPTAARGGSDPW PSCRHP*GPNRKRKRS/R*PMET APRRPSVSPALTPARPPGLTATP RLHPRPP/RSPNPSANLLRRPTP DT*AHATFGPGRSRHHFPGQLS TE/RRRSAEGGRSRREASRRE GGE
14990	45358	B	15077	1	1116	
14991	45359	C	15078	249	332	
14992	45360	A	15079	710	1326	RAAGNCFPEPGFVKQLSAAAA VVAPAAAATEGSIPDTGKSPSSI SHWPNPQKNVICKRRGRVEQE QAW EKGR*RVVFGL*KSMRCP VDLLPQSCLCQRFLHQ/GK WIL TKDYIIHSAKSGRWLDATTYE WGYKIEKDSRYSPQM QSAPKR WREELKRTGAPGAFHRWKVV L LVRTDKRSDSLIRFSDNFGDCDI RMEEKTFRTLME S

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14993	45361	A	15080	602	1257	FGKRGRITITLCILAVGMLCCRK GHTKPRRRPGASPISTHLHSSPPI STHLHTSPPPHRRREAR\SGQ*R QSCGAAAAR*PWWWNCDGWG PKCQRFSKH*DIAQPDEVSWGQ *PWAVGALAGPHP\QASEGPL GCTPASICGSTRKPSKPLSKKPP QAARTSSSRIVFTPISTRPPTQG QPEKAKSATPTNDLEGPSAKVK FVNFLMDETFPEPSFFFI
14994	45362	C	15081	140	175	
14995	45363	A	15082	2295	3089	NLLGYQEINPPLQIFWDKLLAV SERDSSVKEESGDVESDDTML* MLPCP*ETTEFSS*PFRISS*LSS* STAQ\PAETCFAGGWYSIFCPQ RIEQETMCLL*SWQSEVAVSCE SPWPTALHHSHPNRAPP CY/S KSTSSSLSSPLENSG*QNRPPSL ITSVLPLRITCLP*VSFIPPIMQLG GSFLSNDRL*QSFILPKNVSLEF VSFPLI*GAVSKPAISFNTSVSPL LVSDIFFALSLLP*GLGTWLIPSS SSLLLVRGF
14996	45364	B	15083	143	1727	
14997	45365	B	15084	307	1017	
14998	45366	A	15085	1	959	MSRMGLLGFGERKELPNHPAV SEWPLTLVTGCSSGTVAEGEGN LTTSGLFSIVPLHPDGVAAGQR HSSLPRWGSQAEALLTSQTVDG QAEMLLTPQTMGGQEEMLLTS QTTGEDFITRSTESGTHSKSHKG DEGEPRWMLGWMLWVCDIAE PLVKAKLLDCKHTCCSVCLQQ TRTSQKDVRCPWCSGVTKLPPD FSVSQLLDDPEVLAVITIPHA HMPVFIRLPGSGCYSCPCSPRS TRCCPEI*AATCCPGTGRSPSLC DHPCWTAASARQGSPGGGGGG AGQAGHGEKLHVVEGVHCHL GGLRLGLPPQHRAP
14999	45367	B	15086	112	672	
15000	45368	A	15087	2	530	SGRSAALLSARVNRSQSFAVL GSHERGPRSFVFPSPGPPRKP ALSRVSRMFSVAHPAAKVPQPE RLDLVYTALKRGPDGLLGAVH QQEQEKLQQQIRESKRNS/RLG EWREGFLYDLDKQVKSIERFLR RLEFHASKIDELYE\AYCVQRR LR\DGALHMGRAYTTGSPGSR



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15001	45369	A	15088	216	1369	EPVLRRRPRQPRAGAOGFPVFS PPGPPRKPPALSRVSRMFSVAH PAAKVPQPERLDLVYTALKRG L/QAYLEVHQEQ/DKLQGGQIR ESKRNSRLVMAGGVLWTVV*E RGAVTSLASASAGVLLIPPKYLPL LPTPAGL\LYDLKQVKSIERFL/ RRLEFHASKVRVQHVCRWD\D ELYEAYCVQRRLRDGAYNMV RAYTTGSPGSREARDSLAEATR GHREYTE/DEGWGPMRQRHRS MCLLES/ELEAQLGEFHLRMKG CAVDINDLGTIKLSLEVTGAAS SVNKASTVTKRSPPIARAHRT PHFGNSFLSTRKPNTYTANHRR RPIEQHPDMRTPPPPHRARTNT GRKDKVRAHEGEKATPTRTRG APHGKAQRLRPLYQYVTIATLS
15002	45370	A	15089	1	940	MSYNSKNYVETITTMNSVKFG ETTPRNRTHYLSTNEKKIFLSGV FSNAYPAGLSRGWDSWPWGSTP WVRHFCYLSSTQLCDQNCILLS SLLPAGPSVCNRLLASAWQKSS SSASSEASETCQSVSECSSPTSD WSKVGSHQPSGATLQRRKDR VE\PCETQSPGPASGGTLGPSGE EAPRPRMSPATIAAKHGEEVSP AASDLAMVLT\RGMSL*HQKSS RDSLQYSSGYSTQTTTPSCSED IPSQGRPAGLGPTKPVSIESTYL QSPQRLKQEWATEGKIQLPPQ IQVVNFQVDSSPSLPLIMVPEH MHVS
15003	45371	B	15090	1	777	
15004	45372	A	15091	26	336	KISPMINVFCSESSPSGERRGA* TPPSPQSPCGPKPSSIPSCSPSR NYFLLFQGLCAEHPALAAPAAS VGTCPSPASGTHAAAPSGPWG RCVHSGPGGRLW
15005	45373	C	15092	46	423	
15006	45374	A	15093	1773	2219	ELDYLCSNSSAQCPGALLPSL ALPGPAGSARQAGSPARRLCAP VQPSGRWPAPGGPGFPGSSCPA SPTRQ*LLTSGSGCPRPCHHPSG PPQ*QSTQAWDWILGPGAHG PSGQRCERCLPSRPSGPQTHSG VGSEPRAVRGPVSVFV
15007	45375	B	15094	1	7916	

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15008	45376	A	15095	16	545	GLPWRQHVRVEECGRS/PLRPC SPGTPSPS*PLPAATRGPATCQS LSGLQPEKTT/SPS/CAAVAHER PPGPVPQCPAQGTGLIF*EGWT QPQQRQGPHPVAHECAHDLQ QAAPGPGGAHQG/PSQPG*PDR QPDAERAVVHPGAQ*DAEIQPG LPGEGGPLATRTERSPAQRPS QARG
15009	45377	A	15096	320	1167	MDLKTA VFN PARDGKLRL LTK *\MASKSKEEVSS LISEKTNGAT PLLMAARYGHLDMVEFLLEQC SASIEVGGSVNF DGETIEGAPPL WAASAAGHLKV VQSLNHGAS VNNTTLTNSTPLRAACFDGHLE IVKYLVEHKADLEVSNRHGHT CLMISCYKGHKEIAQYLLEKKG ADVNRKSVKGNTALHDCAESG SLDIMKMLLMYCAKMEKDG GMTPLLSASVTGHTNIVDFLTH HAQTSKTERINALELLGATLFT QKEISCDESGRTRDLSRRKPPH
15010	45378	A	15097	187	623	KLKTQKNNIGPQACNSQLASVS TRSPPTLSVPIIMTDDSQASQL LLAAVTIRKLWSRMAPMLALP TGQSGQTGAEGQGKEGERGQS PCWKPRLDPKLC/EPRQPAQLL* ADVCTGP/CGVRGCPADCRLPC LSPSSAQQPKEASRSA
15011	45379	A	15098	789	1041	
15012	45380	A	15099	707	1373	SAWPSCHCCHLDILSR/PGDDA CSVQILVPGLKG DAGEKGDKG APGRPGRVGP TGEKGEKGDSG DIGPPGPNGEPGLPCECSQLRK AIGEMDNQVSQLTSELKFIKNA VAGVRETESKIYLLVKEEKPYA DPPLSWQGRGGLSMAQDEAV HGLKGAYLQGARLGRGFIGIHR PWKRRAPLLLF*TLSPLRSF*KG DGGGNTQKGSRKREL AQI WGPCIRR
15013	45381	A	15100	79	420	WRRFLFLGV LFRGYLGCLRSRS VLGRLKVSDMRIFFFACGCGHL STLPSWPLRPSLWLRL*EEQELP SLSVPSGRSASRL*LGWRGF GPSPSPRLTVQFSGGRR AQGPS
15014	45382	A	15101	3	284	
15015	45383	C	15102	83	112	

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15016	45384	A	15103	84	303	EEQELPSLSVPSCLWGPCPRAG WLHSLHWPVSHSFSATSTFGM AIWT*SLASGIKPQSSSKVSSRIQ VPPTM
15017	45385	B	15104	112	462	
15018	45386	A	15105	326	1323	DRKAINLQVKLEGAVAL*KP\G EAQLEFGKALGLFQ\STLGHHF VNNKEKILGDFQEATLQAATK LTRGRSLVMENMEQLLSMRME DQSQRNMPLSVVLIREKAHSPF ENRKQEQGEGASPENFRAR\QG *FLAFKAAPPA*AASGPAAQER SVQEPSVNAPG*IPEGGLHTLA GVHHE*ALAWCSPLNKPRFLW KRLP/SRTFHFPEDESAPGSKP SGDLLTLLGGNAAGDFKLK\P CLVYPSENPCFLKGSFKPNLPL VWCSHKKA WVQPG*QSETPFQ KKKKKKKKKAWVTMSLFQEW LHFCSTVE/ARCTQYDLPYKGL PILDSTPGHPGC
15019	45387	A	15106	3	375	HASAHASGLQQSYQAVKEKSS EALEFMKRDLTEFTQVVQHDT ACTIAATASVVKEKLATEGSSG ATEKMKKGLSDFLGVISDTFAP SPDKTSTAMSSPYDGTKARLY SLQSDPATYCNEPDGPP
15020	45388	A	15107	184	377	YCTNNQKVN*TKEIITKRKTPSR QKKDSAFSPSHPLTEGLKWND LTLVSLTHDGFVWRRGKV
15021	45389	A	15108	3	816	SWEDVGWWRSWLQQSYQAVK EKSSEALEFMKRDLTEFTQVVQ HDTACTIAATASVVKEKLAIAA CSRGACFLCPFSIQTEGSSGATE KMKKGLSDFLGVISDTFAPSPD KTIDCDVITLMGTPSGPAEPYD GTKARLYSLQSDPATYCNEPDG PPELFDAWLSQFCLEEKKEISE LLVGSPSIRALYTKMVPAAVSH SE/TFWHR\YFYKVHGLEQEQA RRDALKQRA/VSGDSCT*SGVL TNE*KGSWVRDTERVRSPLPQT FSEGVGWREC
15022	45390	A	15109	1	281	

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15023	45391	A	15110	1	1194	MGFLHLGQAGLEFLTSGSSTDI SEDWEKDFDLDMTTEEVQMAL SKVDASGEPFCFWKGYPGGEL ETLIRLLQKLFFLKTDPAFVLSP STLVKLHLWGNEGLQESLES LHDAALVILVPNLEKKGEISELL VGSPSIRALYTKMVPAAVSHSE FWHRYFYKVHQLEQEQAARRVA RLKQRAEQSISEEPGWEEEEEE LMGISPISPEAKVPVAKISTFPE GRTLAPQSPCEENLVTSVEPPA EVTPSESSESIPKSPLPTRALGTD
15024	45392	A	15111	213	1031	AGNKPDPWAGRNRTAVLPDVS VFHREDVGWWRSWLQQSYQA VKEKSSEALEFMKRDLEFTQV VQHDTVCTIAATASVVEKLA TEGSSGATEKMKKGLSDFLGI SDTFAPSPDKTI*RDVITLMGTP SGTAEPYDGTKARLYSLQADP ATLLY*PDGPPPELFDWLSQFC LEEKKGEISELLVGSPSIRALYT KMVPAAVSHSEFWHRYFYKVH QLEQEQAAPRDALKQRAEQSIFE EPGWEEEEELMGILPIFPKEAK FPLAKISYIP
15025	45393	C	15112	414	557	
15026	45394	A	15113	98	467	
15027	45395	A	15114	1	155	
15028	45396	A	15115	16	94	RCPIASEASWTITD*RCPIASEAS WTITDALGNSYSGGMAF
15029	45397	A	15116	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
15030	45398	A	15117	3	282	LKPVITCLLQLGLLKPINSPYNS PTLPVQKPDRPYSKPNSLP*LNP SLLQRNYTSIFLLTLNMPISCT TMLLYGQKEISSLHKGPPLMP
15031	45399	A	15118	548	1401	SCTPCWHLTGRLWGITAVRQK RHVLSVDPKLRHQSRGKAAPF WCLIIAGTPL*LYTHVSRVSDH AGMPALVLHPLQVPLFWGRG NTL*KD*SLLSLAC/VQHGLLKP INSPYNSPILPVVKPKPYKLQV NLRLINQIVLPIHPVGEAPVPLE TGGKSGKDCILWFECHLSHNTI EHQVSSSTFRIVVATGVLVSLH PQLYMAQNRERHAECLESGK REQESLSGNPENSFRSLLTSRRY LYKSTRTIVLLGLAGPLKQKKL RSQHPSLYKYLQSFNRKDSYR

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15032	45400	A	15119	144	298	WQVPLFWQPFPEPLELWPKA/HLTDSFPDLLGLAAED*RCPIASEAPCTQVI
15033	45401	A	15120	449	667	
15034	45402	A	15121	2	111	
15035	45403	A	15122	323	401	LLLGLAAED*RCWIASEAL*TITDAK
15036	45404	A	15123	2	593	CTLP SH*NLITLTPLNANIPSHGML*KD*SLLSLACYSTAF*GL*TPLTIPPFFYL FKNQTRLTG*FRICPLSTKLFCLSTPWCQTHLSYPQYLPPQPIFLFWISNMLSLLFLCTLYPSLSSLSLGLTLTPIRLSKLPGPYCRKPSQTAPT SNHPSSFSGSWYSVETSYPLSSSIFRKGR TDSWSLKDTPHQAQPPT
15037	45405	A	15124	354	630	
15038	45406	A	15125	29	354	RFLVSLMLPPAVVMLNHCYSLIFTNALVKRLF AWMMLSELATCAGNLATGPRNARSPGFLSCVPSVRDPTGNQTVQLTWQPLPEPLELWPKA/HLTDSFPDLLGLAAE
15039	45407	C	15126	1	576	
15040	45408	A	15127	377	624	RDQLQCLQLWDAGACYTCWKSATGPRNAHSTVFLSHVPSVWDPTENRTVHLTWQPLPEPLELWPKA/HLTDSFPDLLGLAAED
15041	45409	C	15128	1	462	
15042	45410	A	15129	44	340	PCQTTQGRLLTAGTPL*SFTHVS RVSDHAGTPALVLHP*RQVPLFWGRGNHISGTQELPNT*TAV/VQAF/LPEPPPTG/CLLHVPEIWPLGQGMPAGQDSS
15043	45411	A	15130	242	522	RLVWPTATQRAWSQSEAAAKTVDLALSARNSATGPRNACSPGFLLSCAPSVWDFTGNRTVQLTRQPLPEPLELWPKA/HLTDSFPDLGLVTE
15044	45412	B	15131	1	1080	
15045	45413	A	15132	1	642	

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15046	45414	A	15133	245	1033	TALLLTQSLFGGLFTQTRMKFG AVTRIGGPPLGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLLSLACYMAF *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFCLSTPWCQTHIL SYPQYLPPQSILFWISNVLSLLF LCTLHPSLSSLSLGLTLPFRLS KLPGLYCRKASQTAPITSVKPK FLPYLLPISA
15047	45415	B	15134	146	556	
15048	45416	A	15135	1	555	LTSFLHCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPEPLELRP KA/HLTDSFPDLLGLAAED*HCP IASEAALPPCFPRPDMITSRLQL QRRRQTALGVRYRNATYRTRT ASTNSLRPRGSPFPLALVTNDR QVRSQALWKRDRLLQLSPINR AISESSFT
15049	45417	B	15136	1	555	
15050	45418	B	15137	499	769	
15051	45419	A	15138	752	1111	MQPTIGNSQSVSRPTA*MPLAE SHPITQLVGTVTTPRVTPLSIRH PWRCRSANAGAMILTMQLAI VMRVYQHQVRRSMRPGRNGA RSGMSAVGAYYSSCIRVMTAL QSCTGDDEAVLL
15052	45420	C	15139	1	632	
15053	45421	A	15140	1	375	PGVRGAQGGPSIPRQCEESAIGP KFAWIISSFHWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPEPLELWPKA/HLTD SFPDLLGLAAED*HCPIASEAPA LVYTAGLHCFKPSQ

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15054	45422	A	15141	1	1340	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLGVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMCKNGEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVVLHQPSGFRTSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQTDQPKKHLTNFKSKTKET GFIHGPKTPAPVTDWEGSLPLV FNHSGTPL*LFTHVSRVSDHAG MPALVLHP*RQVPLFWRRGKI* LTSPSRCTIIEKSCNSLPPL*DKP QPHLQHTRTSKCLNRSGQAF/L PEPPPTG/CLLHVPEIWPLGQGM PAARDSS

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15055	45423	A	15142	2	2107	IDMIFTPGPPSTPKHKKSQKGS FTFPSQQSPRNEPYVARPSTSEI EDQSMGKFVKVERQVQDMG KKLDFLVDMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSRISPRQRRSITRSDTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVD AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPPTTSGPQTDQPKKHLT NFKSAARPTFLGQGQVPLNPFS FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLLYFSGG QEPPPPPLLCVSSLFSRLASFTM GAFTHGTQTPSPTKATAPRYPQ TGDLSAEWPFTAGEEPVLVPRP
15056	45424	B	15143	1	930	
15057	45425	B	15144	401	1093	
15058	45426	C	15145	1	843	
15059	45427	A	15146	1	498	
15060	45428	A	15147	112	669	SLQGRSLSDYTPTFQGCQTQGC LPWSFTLCSKSRFSGEGETRFKR IKACYHSPATAWPFKAYKLSLQ FPHFTCRKTRQALQVSESAPY QPNCFAYPGRGAEPHSPILNTS LHNPLFCSGSQTCFLY/SFLCTL HPSLSSLSLGLTLPIRLSKLPGL YCLKSSQTAPITSVKPKFLPHLL PISA
15061	45429	A	15148	957	1100	



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15062	45430	A	15149	303	2028	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQTHQPKEHLTNFKSD KGDMEFYPTWQ/N/YQCRSRTGK AAFPWCLITAGTPL*LYTHVSR VSDHAGMPALVLHP*RQVPLF WGRGKLLARPS*VPILPQPLLL HPIIFLSPPLLTGPGAYSFVL*LA LPHLPSNLLLKRWLEPKA*SSM/ TLKGLKPVITRLLQHGLLKPTN SPYNSPILPVLKPKPKYKLVQD LRLINQIVLPIHPVLGIIGLTSSV RRDAGQDLKRDRAEFLGDEV HHPHRRRIAEARRLLGQHFD LHRLIGQVLELGEARYAPPVEQ HHRLAPARRTGQRLHPLEQFG QAGRAQRNRNLGIEHRDRLDRP DDGAGNALAGDGDFFRGCLFA GIGIRPRYCRYRQSQDDRRPSH AAPRPRALPIHRPATPIADV VMFSVAIMSQRLLVLRHIDGIS RWPPAVVFITDVKIWLVPSPDD CRIRSNDRDDMQGEAPAMSMN AAARVGDPIGHSSFSQGLFGEAL DGLFFARRSEVDMRAGNLGRLL ARGLSGGRWTPADGQTLGSR DVFINGPPATMTIRSTGQCRQH
15063	45431	A	15150	653	1076	RSKYPNLVSLCPSPLFPRPDLLS LWPNPLFLHPNLLYLCAPIPYFH APTSYLCTPTYFHDPTPFPLFW KELATSARNLATRPRNACSPGF LLSCVPSVRDPTGNRTVQLTW QPLPEPELWPKA/HLTDSFPDL LGAAED*CCPIASESP*TS DILGRDTHLLALKVQTVVLQTACGE GHVAGNCGRPLETEGSLQLTAT KKLRDSVLQPKSPEFCQQFTRA WNRTQVPDETEAPAGTYAAQS GDLPEINPLSSCSLLHEKDPPT ASGPQTDQPKHEHLTNFKSGFRG VRPRRDACLGPSPLAASPAFLG KGQVPQPLLSVSLPRLRLSGGQ ETPNPFSFTLSGKSAFLEEQVPQ PRISVPQSLISTPRPLISVAQSLIS APQPLISLCPNPLFPCPDLLSLHP NPLFPRPNPFAFLEGACYKCQ KSGHQAKECLQPGIPPKLRPICA GPHWKSDCPHTLAATPRAPGT LAQGSLLTDSFPDLLGLAAED
15064	45432	C	15151	234	449	

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15065	45433	A	15152	2095	2663	LGLGDLWPWEINPPSSCSLLREKD PPTTSGPQTYQPKKHLTNFKSA CFERIKACYHSPAKAWPFKAYK LSLQFPHTCLKTRHAI/PS*FSD LCLINQIVLPIHPMVPNPYTLLC SIPPYTMHYSVLQLIRAFFTIPLH P*PSLY*VSLGLTLTPIRLSKLP GLHCRKASQTPITSVKPKFHP HLLPIST
15066	45434	A	15153	678	1189	LGSGDLWPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSE TKETCFIHEPKTLAPVTD*GRQP SLGV*SLQGRPL*SFHSISRVS HAGMPALVLHP*RQVPLFWGR GKYPNPFSPCLLPLLCFSGDRG KYPNPFSPCLYSFSAFLGTGQVP QPLLSSLPLLCF
15067	45435	A	15154	649	1428	QCISELQFLLASTVRQTPATSPA HKNFQTPELQRPGVPPEPPPTG ACYTCRKSGHWAKECPQPGIPP KA/HLTDSFPDLLSLAA\ED*HC PIASEAPETITDAELPVTLTVEA HLHPGEINSHVAHTKPVWWSL HRDAHEIWCCDSDRGTSRRPI PCPPALCSVTKIHLRPQVLRPTS PRNISPISNPAAPHQAELGPNPS/ SSLCSSL*SFYHLPSSHLVWLT VSFRD
15068	45436	A	15155	240	1208	LRSGDLWPWEINPLSSCSLLREKD PPTTSGPQTHQPKHLTNFKSC KQ/DLFLSSPTSLTIPQLSPFN LGATLQSLPSLNFNSFHFLVETK ETRFIRGPKTPAPVT/VLGRQPS LGV*SLQRCLSDYTPTFQGCQT TQGRLPWSFTLSGK/CPLFWGR GNTL*KD*SLLSLACYSMGLLN PINSPFPSSHFTCPKTRQAVTS* VQDLRLINHIVLLPIHPGGAQPH TLFCPQYRPVVLPIILFVYVKHA FFTIPLQPLIPSLSLPSRLTLTPI RLNKLPLGLCCCKAFRDSPHYLN QAQISSSVTYLGIILIKAHVLSL PIVSDW
15069	45437	A	15156	1174	1623	KFGLVQLTLGKPLPEPELELWPK A/HLTDSFPDLLGLAAED*HCPI ASEAPYTITDAELRVTLTVEGK SVPFLINTEATHSTLPSFQGPLSL ASITVVGIDGQASKPLKTPQLW CQLRQYSFKHSFLVIPTCPVPLL G*DTLTKLSASLTIP

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15070	45438	A	15157	1	1610	MGLGKSLCILKDAVLALREIKG ISFQYAPNTNRLWGYRQAKQT QHLSGISTLDCPQRYNGDDTGS VWALEPSCMLWACPLVFPSEIY YFISEDVWKHLDAQEKFAAVM GPSRRTSVRAVWKGNGVLEPP HRVPTGALPRVAVKRGPLSSRP QNGRSTYGLHCLKDPTQEDW LVSVLPEGSRVGVDPLIIPALG HGRTTFLKVLDFQGPAPCPAA MGVRLMAGPQCVSSDYWKKM AKVLRSAAGHHLIPKENLVDKI WTDPERPERCKPLTLGLDYTG SWKDKVADLRLKMAERNVM WVFVVTALDEIAWLFNLRGSD VEHNPVFFSYAIIRD*ETFMLFI DGD\RIDAPSVKEHLLLDLGLE AEYRIQVHPYKSILSELKALCA DLSPREKVWVSDKASYA/V*SE TIPKDHRCMPYTPICIAKA\VK NSAESEGMRISEKSAAGNLTED PFYVIDRTLITTGVVCNSTEKSS LMSVASADTAENLWHLFFHILP SERALTRKLRVLKLGPNYSVQ NPTAQLHQQGPLGVA
15071	45439	A	15158	1	756	
15072	45440	A	15159	1	1677	
15073	45441	A	15160	1220	2620	GPTEPHTGELWLESGGCPSTGK LPEEGTGSNLCCSTASAGDTQA NRVCSGPPTNHSRPAADRPVRR KINKQKTATSTSTKRTSTQRP PKVTNDHSSSPAREQNWME FDELTEVGFRWVITNSSELKK HVLTCCKEAKNLEKRHSLGTK EPAALKGRTQYWQDSSPADLR PWLCAATLLKQYKPTVFSHTVA VHPRAGFLNLSTVDQHPVLDEP IAEAVCIADTNKWSVQVATSQ RKVPHNKLGQDVLVSSQVSSL LQSILQLYKLHLPADFVGDILLD NNLKCVFQLGSILPVTFRSHDP YDGEGETDELRTAACSPDTEQLA RQSGTYPVSLGQATVLEDSKA ALPGLGPTLMAVTVTTEAAV DMVVGDRGEERGGLVAPGTR GLTEEIWFVPSPSRWWSSHPV VAFITLAKYGPTSSPPVFHHGPN IIRHGAQGAASAGDSGSSSRCD RLPCRQNA

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15074	45442	A	15161	666	1536	FSSAGDTQANRVCSVPPTNHSR PAADRPVRRKVNKQKTATSTS TKRTSTQRPHPKVTNDHSSSPA REQNWMENIEFDELTEVGFR WVITNSSELKKHVLTCCKEAK NLEKRVVNCLTRIT*P*RRTI KTLMEKNTARE\LHEAYTSINS WINQAEERLSEIEDQLNEIKRED KITEKMKNSTTVRVAASMQSK LLQGVAEEGPLRLTRSASFSAEI SMCHQWLFSTFGNGKSRNRYH CEKAHIEGNQLVEETGRAFKSR HRYGTGPLHKFEIHEYTELHHV LMLQGC
15075	45443	C	15162	104	364	
15076	45444	A	15163	162	467	
15077	45445	B	15164	1	1122	
15078	45446	A	15165	188	456	
15079	45447	A	15166	485	1580	GEGYKADLAAATVECPICQQQ RLTLSPQYSHIPQGDQPTTW*Q VDCIGPLLKGQRFVLTGIDTYS GYVFAYPVCNASAKTIISGLTE CLIHCHGIPHSIASDQGTHFMA KEVWQWAHVHGIH*SYHVAD YPEAAGLIEGWNGLLKSQLQC QLGDNTLQGWGKVLQKPMYA LNQHLYGTVSPATIHGSRNQD WNGSSLRGWTFITLFTAPRREP GTYIASDQRTHFMAKEVWQW AHAHGIHWSYHVADYPEAAGL IEGWNGLLKSQLQCQLGDNTL QGWGKVLQKPMYALNQHLY GTVSPATIHGSRNQGMEVEVA PLTITPGDPQAKFLLPVPMTLCS AGLEVLVPEGGTLPPGHTTIPLN
15080	45448	B	15167	10	2352	
15081	45449	A	15168	2	497	WKPIAMRKSRRRQEKLIPVQK EGQPKEGEREEGGPVQAQKVP NRLHLHWTT/HLPSFFQLPLLLD SLWRALKFVVLEAIVKMIRFNG VLGKCEAIRAQALHEGGPPLPL AVFHNRLQIVACSRISARLRGS PPPKSNNEQSSLSTDLRTDSQRL PPLSRNAQQKG
15082	45450	B	15169	1	1911	

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15083	45451	A	15170	1	1569	MPIGKVGEYYIKGTLRATKESE QQSSALELSSDRVYLNEKEPGD QPWNAAFVFRGCGVALALRPP HLGWGEPRWAGFRGAFGFPFS TLNPSNWSLTLIIQGCKQEGFYS PSMRPRVVPKRGSAPKVRAEEN AALPSRCPPGPLPVAQPRGLLM GAHVSSAPAVGVGAASCHRLC PGFPDRPRPTLRSCIMNAVVG CDLRGQVYDPTGGWANEGTR DLSAVQGVNHPGGRPCPTPQS SRQLPVVSRRPVVRPGGEAPP LDILPAALALHQSLTTPQDPRE DRPSADLWAQDSWVGQPQEL PVGSRVRTGTEDTHSGSVCTS RQKDGSGPLARESSVRVILQG PSSAWMMFPEYTPGPRARAGT AVVGAMARQTVNVCLTKVRL QHPEGIPGGGRGPLVPKPVCTC/ IVDVKGSRV\WHVHICMSMGC RHVCLCGRSVGSRMCTAGQT PKLARQASIELPSMAASSTKSW WETGEVQAQSAAKTPSCKDIV AGDMSKKSLWEQKGGSKTSST IKMDSVTT
15084	45452	A	15171	328	641	LLMRSWSLPSAPRGFSCSCLQP QYPCRTESWPQTEPVSPVSHR LLVLATAMLGSSME/RLAG*LG GPASGLDGLGVLFQPLINLGDG QVWLGLHTVTLLYGAV
15085	45453	B	15172	120	1458	
15086	45454	A	15173	1	440	IQQDSQAPLYS\IKETQRANTYL VEWEPGAETAFTLQALVQA PALSLPTGQNFSLYITERAGIAF GVLTQTRGTPQPVVYLKDGE IEHDYQQIIAQTYATQDDLLE PLANPDLNLYTDGSSFVVGIR RAGYAIVSNVTVLE
15087	45455	A	15174	288	376	NHWLLLTMDPRIQQDSQAPLY S\IKETQRA

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15088	45456	A	15175	777	1548	SKIQRDSQAPLYSNIETQRANT HLVEGEPEAEIAFKTLKQALVQ APALSLPTGQNFFLYITERAGIA LGILTQTRETTPQPVA YLSKEV DVVAKVWLHCLRDGEPIKHDC QQIIVQIYAARDDLLEVPLANP DLNLYIDGSSFVENGIRRAGYAI VSDVTVLENSLA AVTLQNRQG LDLLTAEKGGLCTFSGKECCFY TNQSGISSPLEDTT TAGPFLHPI QQEVARAIIGQFPTAFGVSCLE GRLRGEASWTSWVE
15089	45457	A	15176	1	1359	MGPEPKNTHPGSCTCPLACSSS HKGFECLAVEQGSYTPVASPIV GVKENQEILD LLELKYNQTRSA VTRCVLGAASTARIKQAEEGGR SRLAESSGLR LFPVLELPALHQ TPSSSGFELDLHQRLATWSQA FNYRLKDTLLASLLLRFWDS WLP CSSVCSWPVGLHLVIIERN YSYQQGTETV VSSWATGVSA ASVSATIPINRVQGHCGFLGKR CFYCCIGECNHS DHQGP GTVAG SWARGVSATASQIQVDLGKFS DDPDRYIDVLH L TW RDV MLL DQTLAFNEN NVALAAAEFGD TWYHRPVNDRMTAEQRDKFPT DIKTAAGIPWNHWLLLTMDPQ TQRDSQAPLYSI*ETQRANTYL VEWEPEAE/TSFKTLKQALVQA PALSILT GQNFSLYVTERARLAL GVL TQTCGTTPLYQDEL RKKTL RHRDSEGS GFNQLEASAD
15090	45458	A	15177	368	5192	AAPAPQLGLGPCKLASHLLSQS HLSQSVRSEAEQKAGASPASSI QREPLFKDQLKAPLPEQKRRSL LTVPLLTFRAQKCGPGSPLVAR GGATDSWL VSEEFRLSDSTAPP TELRGQEATGITKPPASLHPQPH AWDWARGRDRRHLLGTPELQ EHSEKTTTETLPADMGKLRTW ERKEATAGQAAEGAAGGIHFE ATSLLRPSSYVPQTQ GALSTTY KEAKMDRDLHLTPILAAQRAR GPRIHSFSPDEMI EPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15091	45459	A	15178	76	969	KKSTALVIDNGSCMCKAGFAG DDAPQAMFPSTVGFGHQQGVM VDMGQKDSYVGNEAQSKRSIL TLKYPIKHGIIITNWDNMEKIWH HFYNELHGAPE*QPVLLTEDPL NPKDNREKMTQIMFETFNTPA MYVAIRDVLSLYAFGRITGIVM DCGHRVTHTVPIYEGYSLPHAI LHLDLTGWDLTEYPCILLFSEK SYELPDGQVITIGNEWFWCPEV LFQPSFPCMESCRHQTTINSIKK CDVDIRKD\NTVLSGGTTMYPG IADRMQKEITALAPSTMKIKIIA PPERKFSVWIGCS
15092	45460	A	15179	1	451	
15093	45461	A	15180	130	227	LMKMKKVM*RA*KEEERTTPP AEDDFEKDLEWLINENEKSDAS IIEVYIANSIHNNYITKCFAIL
15094	45462	A	15181	104	1715	KEEERTTPPAISVIPAAAFYTAY FLHKQKMENKDTDSKKSEY EDDFEKDLEWLINENEKSDASII EMACEKEENINQDLKENETVM EHTKRHSDPKSLQDEVSPRRN DIISVPGIQPLDPISDSSENSFQ ESKLESQKDLEEEDEEVRRYI MEKIVQANKLLQNQEPVNDKR ERLLKFKDQLVDLEVPLEDTT TSKNYFENERNMFGKLSQLCIS NDFGQEDVLLSLTNGSCEENKD RTILVERDGKFELNLQDIASQ GFLPPINNANSTENDPQQLPRS SNSSVSGTKKEDSTAKIHAVTH SSTGEPLAYIAQPPLNRKTCPS AVNSDRSKGNGKSNHRTQSAH ISPVTSTYCLSPRQKELQKQLEE KREKLKREEERRKIEEKEKKR ENDIVFKAWLQKKREQVLEMR RIQRAKEIEDMNSRENDRPQQA FRLWLKKKH\EEQMKERQTEEL RKQEELFFLKGTGRERAFKQ WLRRKRMEKMAEQQAVRERT RQLRLEAKRSKQLQHLYMSE AKPFRFTDHYN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15095	45463	A	15182	881	2040	MKAGWRQTQHLHDAGQLLHLI LPGEQGVARVQLRRDAAQAPH VNGHVVGVAQDHFWSVEPA LDVRVYCGGKTGGKQRRERREG RCGVEILMVGERKMENKETD SKESEEYKDESEKDLEGLTNEN EKSDASIIEMACEKEENINQDLK ENETVIEHSKQLSDPDKSLQDE VSPRRNDFISVPSIQPLDPISDSD SENSFQESKLESQKDLEEEDEE VLPRSSNSCVSGIKKEDSAKID VVTHSSTGEPLAYI/ASTYKLAY IPPLNRKTCPSAAISDRSKGNG KSN/HGQSAHISSVTSTYCLSP* QKEL/QKREKQREKLKREEEQQ KIEEEEEKKRENGIVFKA WLQK KREQVLEMRRIRAKEIEDMNS RVSKTSLKNKFIQI
15096	45464	A	15183	873	4292	MVVSLGRVSSLSSEDSDPTGRVG R*VDCKVDRSIWAGVWISEDAP SEA*EIGGLGRK*MLSGGPQSPS KHVHIL*DQDSSSIPEPMGPCCP\
15097	45465	B	15184	1	2214	PHAPGKEPGTSCSIDTDGKLSG VSGDDS*T/GTDGGESEIEILLPQ *QLPVTLPPLPG*VRYTSR SRSRSTRDPGRKSRPISGLRGLC GDGATS/PLTPRHAPADVQ/PG VSMFAFAGDR/GDGGRRGGASQ/ PAPPGPAVPRPCAQYSARAMPA SGRRES
15098	45466	A	15185	3	361	
15099	45467	A	15186	1	1035	MKIHKSGGLKATPQLYASQFSG VAILATWGPHRPRNSSTSFSTQS KLRRPDESSVDFQKLMLCKEAT KKSKEKEPGMAFPQGHILFSDV AIKFSVEEWKCLNPEQRALYRE MMLENYRNLES/VG*LFKIHDG VLINRARQYRSVPHRDIGKT*FL LPRNQERYSGL*VSVARN*KK WP*STHDRNQRVN*VHTGEKP QKCNECGKTFQSQSYLQCHHR LHTGQKPYK*E*CDKVYSCRSQ LKTHRRITG/EKAYKCKVCEK AFWDNSCLSCQKRVHIGEKPYT ALVMHKAIHTGEKPYTCNECG KAFSRKANLALYHRLHTGEKP YKCEECDKVYSRRSHLERHK
15100	45468	B	15187	1	1347	



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15101	45469	A	15188	1	1446	MWRETKRYAAVLLLTPHYSAS LLPDW/PNLYLHQSGHHVPGVY LKFGISSNPIYPCVDSAKTVFPN APLHDRVQSVRRMGPFKGVFR KVFSNLGFEYSLSTWATMGSPG SLGVSPFGKTLFVESASGSLDA LWPTVEKEISSHKNYQKHSEKQ IYDVRIELTGLNALPNISLNFYK NSVSKLLNRKKGLIHLQPFILR LCVSLHKNREENLGITIQDVAM RLSALPNIVCRLYKKTASEVLK EWSTRWDEYTHHKEVSQKALP TLSVKIYKKNICQLLNQNGPN SEMNALITKKS VKSASGYLESI AALVEKEISSYKNYTEAFYNLL CDVYSHVTEMKLSSIEQIGNTL FVESASGVWRALRPRGKEVNDI FIDQIANSVLVDSSKDICKRFEA CGAMVKKENLHIKTRQKISEKL HWPFGAPRLTSLTGPEKTGKGE HPGAKARGELSGAPPLIHRKL SLMSNVETLLLEKLQGYTGAH
15102	45470	A	15189	1	966	
15103	45471	A	15190	157	531	GDHTTFLCLLMVNAEFKYNFK TIIS*DLLKKDSGQYGHFTIFFRS MSIGCFSIYLCIFNFFHQCFV LVEIFTFLVKCIPQVDSIEDTTFG HPEEATPHPFSSFFMRLEQFSHIF SSWPVSFTA
15104	45472	A	15191	9	494	PTDRPRPRALAGARGPPGRAPR VPPAGGPRPSQYGHGGRPNPR HGWHDAFCPNNTPYR\ERPLDS RYLTPGPLDMRGDSGFRGTGRGS DVGSLKPTDTRRNGKIYLNGS/ NVFYYQQLHPVHRGDGARRG FSGRTCLHRMVC*YEQTGHQS DQT*KARSAYG
15105	45473	A	15192	1361	2038	
15106	45474	A	15193	1376	1906	LAFPDGMASLIMMSLPAMRTL AWAMAVSGNCIPEGQFSALSC ADFGISPKLIL*SSSAPNYLAMG ISCPRADDLPEAGTAETDRACR SIPQYGTDLGWYPATAAGPQSE SVQGAV*PHRYEAG*ST/VWKP LKKK*KPLPRR*LARWQMIRFR KPSPLTTSLKLTCAWRFLDFRW LE

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15107	45475	A	15194	1	1388	MIEHPRRRDNYRQSGPPVADKP TTKGEPLISDIVSDAQANLLIP VDETPPVINDEQSTSTPLTTAQT MALAAVADKNTTKDEKADDL NEDVTASLSALFAMLPFGDNT KVTDAPSTVLPTEKPTLFTKLTS EQLTTAQPDAPGTPAQPLTPL VAEAQSKAEVISTPSPSISGVT RSKMRQREWLVLPEDSLVIRR SNKTSQLPAFNVPLSAAKAAAS KPWRASNTACRNSRPSKVCSAE GEQWFSASGRGEIHSQSPARM AQMCKLAAEGHFAEARVINQR LMPLHNKLFVEPNPIPVKWACK ELGLVATDTLRLPMTPTDGR ETVSGDETYLEAAPLAELHAPA GMILPVTSGDYAIPVTNGSGAV GSYSAITEPGAGSDVGLKTTY TRRNGKIYLNGS/NVFYYQQRL HPVHRGDGARRGFSGQTCLEH MVC*YEQTGHQSDQT*KARSA YG
15108	45476	C	15195	1	1905	
15109	45477	A	15196	285	1706	YARVHSGRSSIRRSIPVSICIRSSI RGCVPVHVCIRSSIRRSIPVDHL YQIIHTKKHTRCPFVSDHPYEE APDYSASLLPDWLPVPSSKVI TYPGFTSICGYTTSSKACFSVF AWCFVTSVPGRFSEDEDEDSE MWSLTALMGVMGGWKTSARS EVSILCSTSSKVIHSSYPYADRA FQVWSLDARFAHINKPFGVDRF SGEAPSRAITMYGVKVLNRPA TGTAHRLVPPDVPVPHGGESN KPRVQTTVSSGISRLSIPISASAL QNVDPKTHDISNITDVTYHCPL SQSSRWYWRFPVRSPLSNGQ TAVRPGGSRAGAAGGPLSEYS GSGFGVMKWTKDQLTVTVKV HHLPEVVEFLYYKQGGWLSVL FGNDERKLNHYAVYYVLSRE KGTKCW/TDSMDYRQR/PAPT NDAETYEFINELGARKTTVPPI GPLHVT/DEPGHLRLFDGENI IEANNE*IHRTQC
15110	45478	A	15197	3	1396	
15111	45479	B	15198	1	1399	

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15112	45480	A	15199	283	796	FVG VKSAGNRLKTIDELANESR SSVGLTQAALKTLESSGAIRIER RGRNGSYLVEMDNKALLTHVD INNVCAMPLPYTRLYEGLASG LKAQFDGIPFYYAHMRGADIRV ECLLNGVYDMAVVSRLAAESY LPQKGLCLAL*LGPPPYVGE\YQ L*QVKAKSEYVKRVGHV
15113	45481	A	15200	48	3376	
15114	45482	A	15201	49	681	DPGADRRGSVWGLSDLRNTYN ALYLTHSGRLSECPTPANEEKE PTNHNRTLNTQTQKEKKKTRT KDCTTRNKNSTRPGSGIIAGPSY YTVAGPPSAIDPRWLRPTPPAL DPQ*MPHTSKRGKRADQSQPN ANKPNTEREKKDKNEGLHHKE QEQ\QRP GSGIIAGPSYYTVAGP PSAIDPRWLRPTPPALDPQTEPL IFQQLEIDHYVAGLTHEVMSLS HLTLVMRWGSVSAHLAHWA RCRWISTELTPNSITSTSSPLKD CSSSPAMEQSWLENDFDELTED KKTCLCDH
15115	45483	A	15202	3	587	
15116	45484	A	15203	3	774	MVLMAGFTAGNEKGELVVLG RNGSDYSAAVLAACLRADCCEI WTDVDGVYTCDPRQVPDARLL KSMSYQEAMELSYFGAKVLHP RTITPIAQFQIPCLIKNTGNPQAP GTLIGASRDEDELPVKGISNLN NMAMFSVSGPGMKGMVGMA ARVFAAMSRARISVVLITQSSSE YSISFCVPQSDCVRAERAMREE FYLELEESLLEPLAVT\ERLPI\NS VGSDGNPPPCGGISPKFFAALA PRPISKFVALCSGIPF

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15117	45485	A	15204	1474	1511	HS*VPANLYMELKACFTGA/NE KGELVVLGHNLA VSYFIALAAS LRADCC EIWTDVDGVYTC DPR QVPDARLLKSMSYQEAMELSY FGAKVLHPRTITPIAQFQIPCLIK NTGNPQAPGTLIGASRDEDELP VKGISNLNNMAMFSVSGPGMK GMVGM AARVFAAMSRARISV GLITQSSEYSISFCVPQSDCVR AERAMQEEFY\ELKEGLLEPL AVTERLA IISVVGDMRTL RGIS AKFFAALARANINIVAIAQGSSE RSISVVVNDDATTGVRVTHQ MLFN TDQVIEVFVIGVGGVGG ALLEQLKRQQSWLKNKHIDLR VCGVANSKALLTNVHGLNLEN WQEELAQAKEPFNLGRLIRLVK EYHLLNPVIVDCTSSQAVADQY ADFLREGFHV VTPNKKANTSS MDYYHQLRYAAEKSRRKFLYE HNTFVSPHIRPLIERRGRSSTRD KWCARPSTERQQDNSAARILSC QQGNTSFEHTSSIRVGTTNSLN
15118	45486	A	15205	198	462	

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15119	45487	A	15206	31	1981	RWLMRGMGIALPAAMASTVSP STIAETPEPPPLSDW/LRASG/DV WVHLLGLDPHLSSLLSICLFSR SLIWIF*LQP*SV/ALAFQM GAS LFASNIGVIEGEGPQAKPL*CLT VSYFEMLNNAQGPQKGLSP CQCLSLQVMTMPEYLKKRWTL GQRSQWPQMHVSFSS*LFPF*A DIFAGAIKQPSGEGKYMRT G*NALVLFFLSLGGLEVVIIINIG CLRFQ*DISFYSDAFLAFNEVGG YESFTEKYVNATPSVVEGDNLT ISASCYTPRADSFHIFRDAVTGK GR*LPLKSSPGLFHECVTFSRQV IVQRCLACGKDMSHVKAACIMF LFV*WLLVLPWASLDSLLNSSP DMVACVVPSECVISTLSGLARQ CPATNQCLYPFPAPGLRGLMLS VMLASLMSSLTSIFNSASTRTK AQWK*L*CFCLMFKLCCFLLRI FVLLLT VVSIVWVPLVQVSQNG QLIHYESI***LT*ISFSYFLNLI FFLLLLQGAFWGLMVGLAMGL IRMITEFAYGTGSCCLAPSNCPKII CGVHYLYFSIKVPFYTTIANICL LLMHFCMVVPVQLYRLCWVLR NTTLTRISSSFVI*IFCNHLLIFVP DYPEKSRGCLKKAYDLFCGLQ KGPKLTKEEEEALSKKLTDSE
15120	45488	B	15207	1	1392	
15121	45489	A	15208	57	1523	
15122	45490	A	15209	473	589	LPRQLALSCVVHCQTLVPAIRCI DWGWLF*W*SVTPVM

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15123	45491	A	15210	1	1297	MGKIMSSYQHVDLIVDCDFEA YHRQPSSGTSVVTGPSAQUALI TEKIVTYHWDQHVGDLVLNI YCVINVLDHTVKAVIDDRFMG GITTINLQLMAHIVRYFFASGSA YIVAMLPVFAMLANVSGAPLM LTALALLFSNSYGGMVTHYGG AAGPVIFGVGYNDIKSLCFDER TRIDVADTYASNWRSRCNQITF NGECPNTRQHIAAVRRGIDTLL MNDYLRKQIIDISTRIAGTANN GDFTGQWITAANTVNFQIVAGT HNCHQYFIALRLIFGILKYIQDR AREGLKQRDLAEALSTSPQTVN NWIKRDALSREAAQQISEKFGY SLDWLLNGEGSPKKDLESNIPP ESEWGTVDADKNTPLPDDEV EVPFLKDIEFACGDGRVHDEDH NGFKLRFSKVIVQPRVGC*QG* G*LLYLDV**GDPLEST
15124	45492	A	15211	62	301	SWMSSPRAFSSSTCLETAAPTR MATALTSAACRLPPAAGSGSP WAPAPYRWRARRRTGPMSDR Q*RTSQPCPEPAAASR
15125	45493	A	15212	1	1665	MQDSAHLRLPPAASRRVWLA LGSCPLPLESSPAHRAYERPSVA HQPAVPGARRSLEVPSEVPLTV PALTPPRIPAMLTAVCGSLGSQ HTEAPHASPPRLDLQPLQTYQG HTSPEAGDYPSPLQPGELQSLPL GPEVDFSQGYELPGASSRVTC DLESDSPLAPGPFKLLQPDMS HHYESWFRPTHPGAEDGSWWD LHPGTSMWMDLPHTQGALTSPG HPGALQAGLGGYVGDLHQLCAP PPHPHAHLLPAAGGQHLLGPP DGAKALEVAAPESQGLDSSLD GAARPKGSRRSVPRSSGQTVCR CPNCLEAERLGAPCGPDGGKK KHLHNCHIPGCGKAYAKTSHL KAHLRWHSGBDRPFVCNWLFCG KRFRTRSDQLRHLQTHGTGKKF PCAVCSRVMRSDHLAKHMK HEGAKEEAAGAASGEGKAGGA VEPPGGKKGKREAGSMASSPD SPCSCDCFVSVPPASAIPAVIFA HELGPPTGRGAGGGVCPRRHS HSWEPAPGL*AVGGGGGASGQ AGDRGCHA*EAGRS/SCSRRGS GL*RAGTS*ISASS

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15126	45494	A	15213	3	471	GRPSSPGVHGSSTQTPAHVGSF PGCGPIPPD/ACRRSKIRGPGGW GGVGG/CRDGRNSR/DLRNLPC PFLFLPGP*AAAPSPWPAAAGA APCGQCLDGWPHSYSHGHSSA AGRGGICRSPPLLAGELRPPGIQ YNGRTEVRGILSGSPCPPFSGAG
15127	45495	A	15214	3	449	PHQDLEEAMVLL*PPSP/PAWPT MRTRKRPSSKVSSTSRPLRKSIM TTYAVPSRAPTPA*PSASKPTNA FS/HMVGSEPRSHAHLDRHRD SR*RKPRPLSGPRTLGGKSLRGS AGAGRGGVPRPRPLPENLDAPL WNSPGNSAGAAVQLA
15128	45496	A	15215	26	1126	EGPSSEAAHPGGTPREQDGAM DPARKAGAQAMIWTAGWLLL LLLRGGAQALECYSCVQKADD GCSPNKMKTVKCAPGVDVCT EAVVAVETIHGQFSLAVRGCG SGLPGKNDRGLDLHGLLAFIQL QQCAQDRCAKLNLTSRALDP AGNESAYPPNGVECYSCVGLSR EACQGTSPPVVSCYNASDHVY KGCDFGNVTLTAANVTVSLPV RGCVQDEFCTRDGVTGPGFTLS GSCCQGSRCNSDLRNKTYFSPR IPPLVRLPPPEPTTVASTTSVTTS TSAPVRPTSTTKPMPAPTSQTPR QGVEHEASRDEEPRLTGGAAG HQDRSNSGQYPAKGGPQQPHN KGCVAPTAGLAALLLAVAAGV
15129	45497	A	15216	1401	1983	AQRAQALECYSCVQKAD/DGC SPNKMKTVKCAPG/VDVCTEA VGAVE/SHPFWIWPRPFNAAPPP LSAWPGPYDTALQARPLY*QL QARGAES*ELVH/GQFSLAVRG CGSGLPGK/NDRGLDLHGLLAF IQLQ/QCAQDRCAKLNLT/RG LDPAGTSPPVVSCYNASDHVY/ KGCDFGNVTLTAEPPTVASTTS VTTSTSPQ

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15130	45498	A	15217	1	964	MNVKGD TQGNTRVRVDNIGG VGAQTVNGIELIEVGGNSAGNF ALTTGTVEAGAYVYTLAKGKG NDEKN\SPSVYRP/EAGSYISNIA AANSLFSHRLHDRHSCLQPLKI LVTGGAGFIGSAVVRHIINNTQ DSVVNV DKLTYAGNRESLADV SDSERYVFEHADICDAPAMARI FAQHQPDAVMHLAAESHVDRS ITGPAAFIETNIVGTYVLLEAAR NYWSALDSDKKNSFRFHHISTD EYVGDLPH PDEVNNTTEELPLFT ETTAYAPSSPY SASKASSDHLV RAWKRTYGLPTIVTNCNNYG PYHFPEKLIPLVILNALE
15131	45499	B	15218	44	405	
15132	45500	A	15222	1	498	MTRSLLSVFEEDAGTLTDYTNQ LLQAMQRVYGAQLNLLHTELA KQL\ETQWFYLSYNSEKRISQTL SAMWRG RAAQA/TQGHVWVG MVEAVCSKVSTLKD LFGLASN EHDLSMAKYSRLPKKKENEKL AAFGQPTWCDPAERVGFLEPV GPDPGA KSAPSPRDRASTL
15133	45501	A	15223	1	1224	
15134	45502	A	15224	1	1353	
15135	45503	A	15225	1	2580	
15136	45504	A	15226	1	3117	
15137	45505	A	15227	1	1260	
15138	45506	A	15228	1	2142	
15139	45507	A	15229	1	1413	
15140	45508	A	15230	1	4049	
15141	45509	A	15231	1	381	MLMLNIGFKNFQFEHLKCSHGS YSEDIGFPNAGALSGAMFLLEE KHLLFGLKEEERLRASIRRESQ QRRMREKQHQRGLSASY\WNLI DTMRRRKARSP/YSLAAIKNRY KGGIRDQKPSYDSLNL CMT
15142	45510	A	15232	1	467	DHSSSPAREQNWME NFEDEL T EVGFRRWVITNSS ELKKHVLTQ CKEAKNLEKRLGELLTRITSLE KNINDLMELKNTARELHEAYTS INSWINQAERLSEIEDQLNEIK REDKITEKMKNSTTVRVAASM QSKLLQGV AEEGPLRLTR SASF
15143	45511	A	15233	1	1140	
15144	45512	A	15234	1	2640	
15145	45513	A	15235	1	714	
15146	45514	B	15236	1	546	
15147	45515	B	15237	1	735	
15148	45516	B	15238	50	1603	



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15149	45517	A	15239	1374	2220	QAENSHININKKDVHSETPSEG HQRKRPKDHSSSPAREQNWME NEFDELTEVGFRRWVITNSSEL KKHVLTQCKEAKNLEKRLGEL LTRITSLEKNINDLMELKNTAR ELHEAYTSINSWINQAEERLSEI EDQLNEIKREDKITEKMKNSTT VLVSTWGSQLEQNNLPHIISPLF HSTHDLNISFYGGCLLQACSSK LLQGLAEGGPLRLTRSASFFAA KLCLTKHFLPTMILIKSRKTP DTQPRRLYLLQGVVDQTSRKG PTALNIRQKTFAAAPPHR
15150	45518	B	15240	1	1311	
15151	45519	B	15241	46	212	
15152	45520	A	15242	3	371	EPLPPEPPAVPSEVELQHRLKEL ERVAGELQSQVKNNQHISLLNR RQEERIREQEERLRKQEERLQE QHEKLRQLAKPQSVELK\SQEV QSLQQQPDHFLGHL\QQYV\AT LSAARWAAYQQLD
15153	45521	A	15243	392	558	
15154	45522	B	15244	52	689	
15155	45523	B	15245	400	603	
15156	45524	A	15246	5	1158	RKFWRWVMVMAAQHSQAAQ GQRR**VSKGP**PGPMGGPVL GHWVHSGGISLAVPSLPPPGKS SVFLFLFSASFSDMKLNPGTVSP RLIFGSYDDGFLVETVVKFDFQ LWQKTPLHRAAGERRRAEQRG KLSFVMP

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15157	45525	A	15247	1	1808	MAEETQHNLAAAKKKSATGF HREGPTSSATLKDLESPCQERA VVL DSTSVKISRLKNTIKSLKQQ KKQVEHQLEEV TAPDNLVPWV GLSWGIGGILGACLLLCHLCLP LEKKANNERQKAERELEVQIQT LIIQKEELNTDLYHMERSLRYFE EESKDLAVRLQHS LQCKGELES ALSAVIATEKKKANQLSSRSKA RTEWKLEQSMREEALLKVQLT QLKESFQQVQLERDEYSEHLKG ERARWQQRM RKMSQEICTLKK EKQQDMRRVEELERSLSKLKN QMAEPLPPEPPAVPSEVELQHL RKELERVAGELQSQVKNNQHIS LLNRRQEERIREQEERLRKQEE RLQE QHEKLRQLAKPHCAFSRS *TMRTRAHLQLEQQVKELQE/Q ALARVFLQVELKSQEAQSLQQ QPDHYLGHPAAEHLEAASQQN QQLTAQLSLMALPGEGHGGEH LDSEGEEAPRPMPSVPEDLESR EAMVAFFKSAGASAQEKQAQL QEQVKEQRVCCQRLAHPVASA QKEPEAARGPGAPGPGGESSF MDHLKEKADLSE/PGEKRTLLH P/PTG/GDRRHQKTHHLLSEPGG CAK/DAALGPGHHQAGAQQGD
15158	45526	A	15248	2085	2700	YPGKRGLEWT*ANSNRPA AEG PDE\SSSLPATEQSWMENDFDE LRKEGFRRSVITNFSKLKEDVQ THRKEAKNLEKGLDEWLTRINS IEKTLNDLMEMKTMA*ELHDT CTSFSSRVDQVEERLSVI*DQM NEMK*EEKFREK\RVKRNEQSL QEIWNYVKRPNLHLIGVSEIDR ENGTKLENTLQDIFQENFTYLA RQANIQIEI

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15159	45527	A	15249	378	1744	QTERNSININKKDIHTKTPSVRH HHQRPKLHKTTKMGKKHSRKA ENSKNQSGSLPPKECSSSPAVE QSWTENEFDEFTEEGFR\RIESQ MNEIKGEEKFREKRVKRNEQSL QEIWDYVKRPDLRLIGVPDSDG ENGTRLENTLQDIIRENFPNLAR QASIQIEIQRTQPQRYSSRRATP RHIIIVRF\TKVEMKEKMLRAARE KELKIKKLTQNCLETTWKLNNLL LNDYWVHNEMKGEIKMFFETN ENIDTTYQNLWHTFKAVCRGK FIALNAHKRKQERSKIDTLASQ LKEIEKQEQTTHSKASRRQEITKI RVELKEIETQKSLQKINESRSWF FEKINKIDRPLPRLIKKKREKNQ IDTIKNDKGDITTNPTIEIQTISRE YYKHLIYANKLENLEEMDKFLD TYTSLGLNKEEVESLNTSITGSE VEAIINSIPTKKKSRTRWIHSRIL PEVQGGAA
15160	45528	A	15250	935	1269	LIEGKLTERNSININKKDIHTKT PSVG/PPSSKTKDRSSLPAIEQS WMENDFDELTEVGFRRSVITNL SKLKEDVRIPHKEATNLEKRLD EWLTRINSIEKTLDDLMEKTM
15161	45529	A	15251	401	497	KTFSPFYFS*RRRTVRDINGFTE Y*EPEKLLG
15162	45530	B	15252	220	940	
15163	45531	A	15253	1	1476	

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15164	45532	A	15254	1	2423	MNGKKNKTNIYQEPTVCQALHW TLARIGKEEPRRGQRGEGLLCS RERQPRGLSSPGTAAPAAPAAP TPPALPGHRTRSGSPEGPEILR RGGADAPGRVKTWVNRPAAF VGKCLGDGSADTACDQAMKG QRGSNRKRKTSHSLTFPTSSDM HAGGLSAAHPCAHSRAPPPASP SPYKGS LGTRTDGLTDSRADSA ASGARALGVDGQPQPSPRRAP PRPVGADGSSRGPPQGRRRVER RGPATQPGDSRALPEPRGVPAV HPAGSGSEWERPPPAAPSPEHR DKMLPGLRRLQASARRPQFPF EAARWVWSPCFSSGTLCPSPQS ERPLLPFGASFPGTTLHQRLCP VAALHSGSGKGQKWQQSHCYA AAVMEEPPAPGRSSES LQGPLS WAGGAPASACLLLMLLALPLA APSCPMLCTCYSSPPTVSCQAN NFSSVPLSLPPSTQRLFLQNNLI RTLGARHLWVQPAHPVALLQQ PLHHLPGHFPPL\QALEELDLGD NRHLRSLEPDTFQGLERLQSLH LYRCQLSSLPGNIFRGLVSLQYL YLQENSLHLQDDL FADLANLE PTSFLHGNRLRLTEHVFRGLG SLDRLLLHGNRLQGVHRAAFR GLSRLTILYLFNNSLASLPGEAL ADLPSLEFLRLNANPWACDCR ARPLWAWFQARVSSSDVTCA TPPERQGRDLRALREADFQACP
15165	45533	B	15255	47	482	
15166	45534	A	15256	1	636	MRDPNTKRSRGFGFVTCATVE EVDAAMNARPCKVVGRTVEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGGKKR GFAFVTFDNHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGGNFSGGRGGGF GGNDNFGRGGNFSGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDFVNYNNQSSHFGPM

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15167	45535	A	15257	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLRSHFEQWGTLTDCVV MRDPNTKRSRGFGFVTYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMTDRGSGKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQRGRS GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
15168	45536	A	15258	1	286	
15169	45537	A	15259	1	1674	
15170	45538	A	15260	235	1370	KREGEGRLADTFVSLLSARGR RRRSIVKVS LHPA VMSKSESPK EP\EQLRKLFIGGLSFETTDESLR SHFEQWGTLTDCVVMRDPNT KRSRG\FGFV TYATVEEVDAAM NARPHKVD\GRVV\EPKRAVSR EDSQRPGAHLTVKK\IFVGWH* RKTTFWGGKKKRAKKHHLRD YFEQYGK\NEVIEIH*LDR\GQWP RKRGF AFVTFDDP\DSVDKIVI QKYHTVNGHNCEV\RKALSKQ E\MASASSSQRG\RS GSGNF GG GRGGG\FGGNDNFGRGGNF\G G\RGGFGGT\RGGGGYGG/SVG DGYNGFGNDGSNFGGGGSYN DFGNYNQ\SSNFGPMKG\GNF G\GRSSGPYG\GGGQYFAKPR\N QGGYGGSSSSSYGSGRRF
15171	45539	B	15261	1	660	
15172	45540	A	15262	2	486	KMRQRERAQGKK/VAPAPAVV K/KQEAKKVVNPLFEKRPNFG IGQDIQPKRDLTRFVKWPRYIR LQRQRAILYKRLKVPPAINQFT QALDRQTATQLLKLAKHYRP/G DKGALAKLVEAIRTNYNDRYD EIRRHWWGNVLGPKSVARIAKL EKAKAKELATKLG

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15173	45541	A	15263	3	845	PPKMPKGKKAKGKKVAPAPAV VKKQEAKKVVNPLFEKRPNF GIGQDIQPKRDLTRFVK\WPRYI RLQR\QRAILYKRLKVPPAINQF TQALDRQTATQLLK/LVAHKYR P\ETKQEKQRL\LARA\EKKA WQKGTSPTRPPVLRVAGS*HP VTTLVE\NKKASAGWWIAHRR GFPSSLVVFLP\ALCREKWGSPY \CIHKGKARLG\RLVTRKTCTTV AF\TQVNLGRQRALLKLVEAI RTNYNDRYDEIRRHWGGNVLG PKSVARIAKLEKAKAK\ELATK
15174	45542	A	15264	1	5796	
15175	45543	A	15265	1	2212	MPRVEKNIPGRRNSKGFEDPLE VTQDVTREWAKKVWVKREKA SKINGAYFCEGRVGEAIRIRT MKMRQQATLTMTVDKGDNVN ISFKKVLIKEEDAVIYKNGSFIH SVPRHEVPDILEVHLPQAQPD AGVYSARYIGGNLFTSAFTRLI VRILPPQPENIKISNITHSSAVIS WTILDGYSISSITIRYKVQGKNE DQHVDVKIKNATITQYQLKGLE PETAYQVDIFAENNIGSSNPFS HELVTLPEAQAPADLGGGKML LIAILGSAGMTCLTVLLAFLIILQ LKRANVQRRMAQAFQNVREEP AVQFNSGTLALNRKVKNPDP TIYPVLDWNDIKFQDVIGEGNF GQVLKARIKKDGLRMDAAIKR MKEYASKDDHRDFAGELEVLC KLGHPNIIINLLGACEHRERGD RRHLENQVPTLILRFSNTLSKR HTRRLYPEPGSEGPTPTPRSL AQQSEIKLHGGSEPPLIFRQTG SGVDLQQTPTNLQLRVLTVRR KTDKRKGHPHQKPICSSPSSKT KEGFRRSNYSKLKEEVQTHGK EVKNLEKKLKDOWLTRITNAEK SLKDLMEKTKARELCDECASL TSQFDQLDKRVSVMEDQMNE MKQEEKFREKRIKRNEQSLQEI WDYVKRPNLCLIGAPESDGEN GTKLENTLQDIIQENFPNITRQA NIQIQEIQRTPQRYSSRRATPRHI

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15176	45544	A	15266	1	743	PPLLIFRQTGSGVDLQQTPTNLQ LRVLTVRRKTDKRKGHPHQKPI CSSPSSKTKEGFRRSNYSKLKEE VQTHGKEVKNLKLDKWLTR ITNAEKSLKDLMEKTKARELC DECASLTSQFDQLDKRVSVME DQMNMKQEEKFREKRIKRNE QSLQEIWDYVKRPNLCLIGAPE SDGENGTKLENTLQDIIQENFPN ITRQANIQEIQRTPQRYSSRR ATPRHIIVRFTKVEMKEK\MLR AAREK
15177	45545	A	15267	1	618	
15178	45546	A	15268	200	618	EVSRRNTRTKTSYKQDMNTSK GF*KDTST*PVT/KERSSSPATEQ CWTENDFDELREEGFRRSNYSE LKEEVRTNGKEVKNLKLDK WLTRITNAEKSLKDLMEKTM ARELCDERTSLSSRCDQLEERV SVMEDEMNM
15179	45547	A	15269	158	594	SGSSICCSPISTVLQPPLLTPRQT GSGATSSK/SPTDLQRECSSSP AKEQSWMENDFDELREGFRRS NYSELKEEVQTHGKEVENLEK KIDEWLTRITNAEKSLKDLMEK KTMAREQCDECTSLSSRRDQLE ERVSVIEDQINEMK
15180	45548	A	15270	3	1453	LSDLELAAQSIIIFAGYETTSSV LSFTLYELATHPDVQQKLQKEI DAVLPNKERSSSPATEQSWTEN DFDELREEGFRRSNYPKKEEV RTHGKEVRNLEKKIRQM\VTRII NAEKSLKDLMEKTMARELRD ECTSLSSQFNQLEERVSVMEDQ MNEMKKEEFRRKRIKRKEQS LQEIWDYVKRPNLRLIGVPESD GENRTKLENTLQDIIQENFPNLA RQANIQEIQRTPQRYSSRRAT PRHIIVRFTKVEMKEKMLRAAR EKEIQTIREYYKHLANKLEN LEEMDKFLDITYTLPRLNQEEVE TLNRPITGSEIEAIIINSPLTKKSP GPDGFTAIFYQRYKEDLVPFLL KLFQSIEKEGILPNSFYEASIIIP KPGRDTTKENFRPISLMNSDT KILNKILANRIQQHIKKLIHHDQ VGFIPGMQGWFNIRKSINIIQHI NRTNDKTHMIIIDAIEKAFNKIQ QPFMLKTLNKL
15181	45549	C	15271	111	269	

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15182	45550	A	15272	94	4505	YLDMMMSFVQKGSWLLALLHP TIILAQQEAVEGGCSHLGQSYA DRDVWKPEPCQICVCDSGSVLC DDIICDDQELDCPNPEIPFGECC AVCPQPPTAPTRPPNGQGPGQP KGDPPGPPGIPGRNGDPGIPGQP GSPGSPGPPGICESCTGPQNYS PQYDSYDVKSGVAVGGLAGYP GPAGPPGPPGPGTSGHPGSPGS PGYQGPPEGPGQAGPSGPPGPP GAIGPSGPAGKDGESGRPGRPG ERGLPGPPGIKG
15183	45551	A	15273	1628	1832	RRRRKARERRRLAAEQGRMRK EQCKDGFSE/QASGALKLMGSN EGEFKAEGNSKFTYTVLEDGCT KHTG
15184	45552	A	15274	1	362	
15185	45553	A	15275	1076	1240	LRQLL*LCPSWRLCLLGWQWL HLFF*RHHFVHLVSQRCSAMS PSPRRCFSLHL
15186	45554	B	15276	480	1167	
15187	45555	A	15277	3	379	
15188	45556	B	15278	13	369	
15189	45557	A	15279	112	1112	WPPASPSASVIRTVKEFALTNPE KSSTKETERKETKAEELDAEV LEVFPHTHEWQALQPGQACPC RNPTYGLNLQTGEREAKLQYE DKFRNNLKGKRLDINTNTYTSQ DLKSALAKFKEGAEMESSKED KARQAEVKRLFRPIELKKDFD ELNVVIETDMQIMVRLINKFNS SSSSLEEKIAALFDLEYVYVHQM DNAQDLLSFGGLQVINGLNST EPLVKEYAAFVLGAASFSSNPKV Q/EWEAIEGGALQKLLVILATE QPLTAKKKVLFALCSLLRHFPY AQRQFLKLGGQLQVRLTLGAGE GHGGARRARGHTALRPCHREK CSPRRRLS
15190	45558	B	15280	54	385	
15191	45559	B	15281	274	776	



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15192	45560	A	15282	362	1323	HQLGRSALLDTRTVSMQKAKN GDAVTEPQVA/ENEANGKDTA EVDLLTKELED FEMKKATARA VTGILASHPCSTDVHIINLSLTF HGQELPSDTKLELNSVRHYGLI GLNGTENSMLLSAVGKHGVPIPI EHIDIYHLTREMPSPDKTPLHSL VTVSSPRQRDDMSDGHLCSTAR RHTDIRDDRSPDAPDTARSLAR STITTRRIFALATPSRTLQQVCS ALAYTSHPAARTQPLASTALTR RYMLPSPQLPSLRDHRRTNPLH SAVATIPHTTTTGEADVSLLCIGL STLHYALVYHVSVLTAASAQ MSATDASIIFFEPKR
15193	45561	A	15283	3	537	
15194	45562	A	15284	1	455	MPRPEKLGKTQVPPLAECLTKD SFLGQKQASLGPLTFRDVTIEFS LEEWQCLDTVQQNLYRDVMLE NYRNLVFLVISS/HFTQDFWPD QSIKDSF/QRIILRTYARCGHKN LRLEKIVKVSMRKHQIIHTGKK PYKCEECAKLLASQPLENMR
15195	45563	A	15285	1	397	FAVLMAHYDVQEEDPVLTVIT YMGLSVSLLCLL/LAALTFLLC KAIQNTSTSLHLQLSLCLFLAHL LFLVAIDQTGHKVLCIIAGTLH YLYLATLTWMLLEALYFLTA RNLTVVNYSSINRFMKKLMFPV
15196	45564	A	15286	191	1332	AIETQAITDNCSEERKTFNLNV QMNSMDIRCSDIQGDQTQGPSVI AFISYSSLGNIINATFFEEMDKK DQVYVLSQVVSAAIGPKRNVSL SKSVTLTFQHVKMTPTKKVFC VYWKSTGAG/CSQWSRDGCFLI HVNKSHMTMCNCSHLSSFAVLM ALTSQEEDPVLTVITYVGLSVSL LCLLLAALTFLLC KAIRNTSTSL HLQLSLCLFLAHLFLVGIDRTE PKVLCIIAGALHYLYLAAFTW MLLEGVHLFLTARNLTVVNYS SINRLMKWIMFPVGYGVPAVT VAISAASWPHLYGTADRMLAF KATAQLFILGCTWCLGLLQVGP AAQVMAYLFTIINSLQGFFIFLV YCLLSQQAQKHKFTMEVPRQN HRCLQQN
15197	45565	A	15287	263	397	GRPPAPAAARVSGPASVSAG*KR VSASGSVGVSRMRRGSALLPPN F

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15198	45566	A	15288	1	278	MKFHDRGQM QPKPSPAEAVNS APQREPEGSILRAADPLVWAAK AMSASR/RGS/CGGSSADPRHTE RTPTEPDADTRFQPAETLAGPK TRAAGAG
15199	45567	A	15289	5	545	SFMTEAKSSPNPAQQRLSTQRP SESRKVPSSSELQTLSCGLQRPCL HPGRPGDPY YASASTRTRSPS ARHAVWGRRGCYPEA/AVRAR EGPHPTLAPASTYGLASPPRAD SAHRPRHRSLTRLLPNRKLGGG SADPRHTERTPTEPDADTRFQPA ETLAGPKTRAAGAGGQPWDS ANASPP
15200	45568	B	15290	121	822	
15201	45569	A	15291	1	1308	MLRMVGIEISNGQWSTPPCQVL HLEGNDIYNPKEQGLGNTCRW GWMAAGTRRNLCWAPFPFLNP VASLVLHSTIQIALQESKDRVL GTLINSPLVTSTDKANWSLRLA LEVGDGGGLVGLSPQPVGSGA MSRCPNCTRKLIGSGISPTSSTL AEEQGSVVKTHSHQGGARCSK EKGWQILLILVAGLCQLVVVV QNVGVRKIPRKYLAALRVAIGH ALAIERRRIRVDVADQAQDTR DDRSFGRDRNRDSKTDTDWR ARSATDSFDDYPPRRGDDRFGD KYRDRYDSQYGRGYWYEYR DGPCRDMDRYG GSGRRAFG SGY/RRDNDYRGGRDRYEDRY NRWDDGSCSSRDDFSRDDCRY NDRRPPQRPKLNLPKHNTPKGD DSSASTSQSSRASVFVGGAKPV DRAARETKVEEWLQKEQDKLQ HQLDEAKLE
15202	45570	A	15292	2	293	
15203	45571	C	15293	56	298	
15204	45572	A	15294	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFGSLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS

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15205	45573	A	15295	3	1024	CGGIHSVLRGCSLEPAFFYLRSA FSPTISACRHPMEDSMDMDMSP LRPQNYLFGCE\LKADKDYHFK VDNDENEHQLSLRTVSLGAGA KDELHIVEAEAMNYEGSPIKVT L\ATLKMS\VQPTVFPWGAFEIT PTQWSLRLKCG\SGPVHI\SGQH FSKLLLEEDAE\SEDEEE\EDVKL\ LSISGK\RSAP\GGGSKVPQK\K KTL\LLMKDDDDDDDEED\DDDED DG*WMDFGWMEEAEEKAPSE RNPIRDTPAKNAQKSNQNGKD SKPSSTPR\SKGQESFKKQEKTP KTPKGPSSVEDIKAKMQASIEK GGSLPKVEAKFINYVKNCFRMT DQEAIQDLWQWRKSL
15206	45574	B	15296	1	1107	
15207	45575	A	15297	1	1968	MLASMGVVAKEMKYLSSPYPQ HAFHTRIKSLMTVNFQAQLWL PNEAGPTGDGDWGGDTHGCPS FSPHLPRFIQKQPWGTGRRLQ EHFCKSLVPVIPSRLDIEAFHLH ADLILNTLPSLVIIIGQIESHSEEL RARVSTYESGEDTIQCITVTWK PKYGATRWDKPGSPDGPLEER RLEDLSTRNNSIRLFRGCGYRV KQNSSQRPNKVCGLPDTGVLL QTKCGLVRNSQRSAQTNTKQH EELFSTAGIPENLSRRQEVLPQH GFTGWVGWTWKLTSGEVTF HHLSATHKLSHASCRQGNFKP KGAMSVTRSTVHPHLAFLSAEI NGKCGRPCVFLGIWAINCGMAI LYERLSALVCVSVSERHLDYT MRFLFDIPPSTLEARIGSPLWAL SLHPLRSSTVTSSVELILPECTV AVLEIQYVFLGDTILFTTVGKA RSGTRDRDGGRAQIMQVLQGK GRELDAAAQPEGQLLREVRVL GVFPFIPRARVDWLVTVAVG SADEAHGLLGAAAASSTGGAG ASVDGGSQAVQGGGGDPRAAR SGPLDAGEEEKAPAEPTAQVAD AGGCASEENEVLREKHEAVDH SSQREENEERVSALKENSLQQN NDDENKIAEKPDWEAEKTSER NERHLNGADTSFF\SLLEDLFQLL

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15208	45576	A	15298	1	2104	MKHLKRWSAGGGLLHLLTLL LSLAGLRVDLDLYLLLPPPTLL QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLLREVRLGVFPVPRTSV DAWLVSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGG\CASEE NGVLREKHEA\VDHSSQHEENE ERVSAQKENSLLQNDDEENKI AEKPDWEAEKTTESGNE\RHL\ NGTDTSFSL\EDLFQLLSSQPIEN SL\EGISIWGDIPL\GSISDGHEF FKHIYHVNFQRLIS\QD\VNLH EAILLCPNNTFRRDPTARTSQSQ EPFLQLNSHTTNPEQTLPGTNLT GFLSPVDNHRNLTSLQDLYD LDINIFDEINLMSLATEDNFDPI DVSQFLDEPDSDSGLSLDSSH NTSVIKSNSHSHVCDEGAIGYCT DHESSSHHDLEGAVGGYYPEPS KLCHLDQSDSDFHGDLTQHV HNHTYHLQPTAPESTSEFPWP GKSQKIRSRYLEDTDRNLSRDE QRAKALHIPFSVDEIVGMPVDS FNSMLSRYYLTDLQVSLIRDIRR RGKNKVAAQNCRRKLDIILNL EDDVCNLQAKKETLQKREQAQC NKAINIMKQKLHDLYHDIFSRL RDDQGRPVNPNHYALQCTHDG SILIVPKELVASGHKKETQKGGK
15209	45577	A	15299	2	342	RRRFRVAAAAGVTA*AVVLSA RPSETWETRGR*RICPSSWP* GI*VNNG*K*RRHSVCQCSLWF PARCIKPYHSMARTQPGTRNKE NGPAGPTALDNVASSDDTGRH RPQT

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15210	45578	A	15300	710	1831	IRMKSKEIIARCIKPYHSMARTQ PGTRNKENGPAAGPTALDNVASS DDTGRHRPQTTQLAPGFAHPLQ LASFRRMVLFSLSGEGRSRGGPE LQFPASCRRGEGSPGVRESGSG GIAATSTPNYPNQDSKEHDIR GAEHQKQEQPAKPPHTARSAY PPQKSSYPANAKATRHSPETAA AKEARAPAAAQQRHQPNPSP APHTRPATAATRQPERRVPSPT HRHPAATRLSPRRQSPSPRPHH DRRGFPRLAETLQHPMCPLPLV ASAGHHRHRLLLLLAPQAPER EASDEIVFSGRSRSGCPTFQE SAMCFPNPGLPDSCGESQAVTI LILRKFKQVIWVIEVPLDYKKG SWEYFSRMETIIMPENIQSE
15211	45579	A	15301	77	1041	IPSCVVSGIAAAF/HPGLASDAP ARASSWWTHVEMGPPDPILGV TEGFKRDTNSKKMNLGVSAIR DHNGKPYSIHKAQIAAKNLD EDYLSIGRLAEFCKASAEVALG ENSEVSKSGRFVTVQTISGTSAL RIRASFLQRFLKFSQDVFLPKPT WGSRTPIFRDTGMQLQGYRYY DRKTCGFDFDTVEDISKTEPQ SLLLLHACSHNPTGVDPGPKQQ KEIATVVKKT/RNFLALFDMAY QGFASGNGNKDAWAVRHSAN IRHCRCQSYTKNMVLHSEGVA GFTMVCKDADEAKRVESHLKI LMCPMYSNPPLNGTRLLLLPF
15212	45580	A	15302	1	1263	
15213	45581	A	15303	1	1146	MTGRQSLSPVLSLSSLDMSFT TRSIFSTNYLFLGSVQVSNYGA RPASCMASVYAGAGGSGSRISV SRSTSFRGGMGSGDLAAGMAG GLAGMGGIQNKKETMQSLNDR LASYLDRVRSLETKNRKLESKI REHLEKKGLQVRDWSHYLKI EDLRVQIFANTVDNAGIVLQID NACLAADDFRVKSLMTNVTWL PLETEMEALKEELFMKKNHEE EVKGLQAQIASSELTVEIEKSTT VTTQSTKVGDAMTLTELRR TVQSLKMDLDSMRNLKASLEN SLREVEARYTLQMEQLNRILLH LESEMAQSRAEGQHQIGEYEAL LNIKVKLEAESATYHRLDDDD FNLGDALDNSNSMQTI/QKTTT RRKVVSETNDTKVL

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15214	45582	A	15304	184	370	
15215	45583	A	15305	40	1411	RGDPRVRRRTQSLSPVLSLSPDS MSFTTRSTFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTSFRGGMGSGGLAT GIAGGLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL ESKNPEHLEKKGPQVRDWSHY FKIIEDLRAQIFANTVEQCPTTV L/LRIDSARLA\ADDFRVKYET EAGPCAQSVENNIHGLCKVIDD TNVTRLQLETEIEALKEELLFM KKNHEEEVKGL*AQIASSELT EVDAPKSQDLAEIMADIRAQYD ELARKNREELDKYWSQQIEEST TVVTTQSAEVGAAETTLTELRR TVQSLEIDLDSMRNLKASLENS LREVEARYALQMEQLNGILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
15216	45584	A	15306	392	1449	GPWEMLMTIKSHPDARQPQR VKKLTQVFWSSASLRER/GKTY LFWPKLKAAEIPAAAYREALDE ALGISGGGRDVGERVYKGPSM MANPQKPVLEALSSNKYLHILC AKHCDRHEGYKDEIKVKEASS RVNGCVEAMLSAPLPLDRRNE HVESKGKPFMTGLSPRVLSASR RDGLRERKGSFFRTVVLHDTKT DSNSDTETNSSTPPRTLLEMQIL SPTWTYEISSRTLGCGPSVFQQ RASYSPPSVGPRLGCPLMDGGR MRCPPGNPESCVSEANLIPISVP VAPHAHQHLVLSVFWKITIVIG GKTCVAQNHSNEAKMKQRPEI NHASPPGAFAWSQSGEPIASAM TVPA

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15217	45585	A	15307	1	785	MWDVVGQDSSLLRGAGGPGQLQ WFGRLQLHLGGLREHRDAWV HSRGLGSCSGMQGAATPTQNG RGSCLSAPASSMEHAAPAVPP CCSWCDSSSRSRWPATATTETG PRTVPSAQESAUGLLTASLLKG DSGSTGFCPLLSLAAPGTQQC SLGFCCTFERKRSSVSPAAPGTA APELAAALMLMPRKNQIAVYE LLFKQGVMAKEGVHLPRHPE LADKNVNLHIMKAMQSLKSQ GHREEQFAWRHFYWHLTREGI QSIQ
15218	45586	A	15308	1	392	
15219	45587	A	15309	1	716	
15220	45588	A	15310	150	372	RRSNEWGVVPVVPARTGGG/HG QKTPSPPLPPSSPPSPSPPPPA \\APAKIPPPLPLPPLPPREAPPAP GPALP
15221	45589	A	15311	218	740	KSCPETVSRRKNVGSIKKHQGD KFNPVCLKMTTKTEFVLCGWV PCRCL/REGEEETVTTLDYSHCS \\LEQVPKEIFTFEKTLEELYLDA NQIEELPKQLFNCQSLHKLSPD NDLTTLPASIANLINLRELDVSK NGIQEFPENIKNCKVLTIVEASV NPISKLPDGFSQLNLNTQ
15222	45590	A	15312	96	297	
15223	45591	A	15313	469	5174	KMTSLAQQLQRLALPQSDASLL SRDEVASLLFDPKEAATIDRDT AFAIGCTGLEELLGIDPSFEQFE APLFSQLAKTLERSVQTKAVNK QLDENISLFLIHLSPYFLLKPAQ KCLEWLIHRFHIHLYNQDSLIA CVLPYHETRIFVRVIQLLKINNS KHRWFWLLPVKQSGVPLAKGT LITHCYKDLGFMDFICSLVTKS VKVFAEYPGSSAQLRVLLAFYA STIVSALVAAEDVSDNIIAKLFP YIQKGLKSSL
15224	45592	A	15314	267	495	GCLL**CLCIRL/SKNRAERALR PYSDVEALRLSSDFPFRQRPKG GSGWSLLSVEINQYYGPRVMIG RSNSEVVLVL

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15225	45593	A	15315	3	3027	AMEQAGTRPAATEHPRLRRPM PWLLLLPLLLLLLLLLPGPAASQ LRYSPVEEQAPGALVGNVARA LGLELRRLLPGCLRLNHLGAPSP RYLELDLTSGALFVNERIDREA LCEQRPRCLLSLEVLAHNPVAV SAVEVEILDINDNSPRFPRPNYQ LQVSESVAPGARFHIESAQDPD VGANSVQTYELSPSEHFELDLK PLQENSKVLELVLRKGLDREQA ALHHLVLTAVDGGIPARSGTAQ ISVRVLDNTDNS
15226	45594	A	15316	1	775	MPCVNGKYNSTIQAGLQMAQI LQDEGPYEVGIDEETGSQKGDG IIRSSRKLLFTMALFLETNLLKD PLSRERRWRLDELDSGGREKG VAVFLRSAGIRQVQVAMEQAG TRP/AATEHPRLRRPMPWLLL/L PLLLLLLLLLPGPAA/SQLRYSV PEEQAPGAL/VGNVARALGLEL RRLGPG/CLRLNHLGAPSPRYLE/ LDLTSGALFVNERIDREACLGS AGANPVAVSAVEVEILDIN/DNS PRFPRPNYQLQVTARCWWTSW
15227	45595	A	15317	2	165	
15228	45596	A	15318	1239	2251	TCSSRARRPRRGRTVSQVRGPA PWAPRRARLQQRGSLRGAARS PASPTSA/PSYSRASASAGPAAL QPQGA VTPGPSANLAAPGGTL VPAEGPRMPPVTAQSASSHPAP SASQPSSPAAASRGSLSVQEV ATLLASASSPTLDATRDAPATP RIAAPPGSATSSRGLGSQAQGSS LGTKESISDSFGLGSPAVTQRTT APPDSAALSQDTRPEAAGSWPG PQTGACSVSGTDRRD TAAAT EAQHLSSSEKETSQKSGNCF GILKADFTISTLMDPEEMKDQF LRQVRLPSTDALKKQSSISNYRP PGKGKPPQYLGDSA WNMVSA GTIEGFYKE
15229	45597	A	15319	46	2859	



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15230	45598	A	15320	240	924	NGEQKCILCHIVYSSKKRH\SHE CRRCGPTEVSL SAYAKHISGQL HKDNVDAQEREDDGKGE EEE DYFDKELIQLIKQRKEQSRQEPS SSSQEVNSDDSSSATFSVSFVYV WLKTILLLTWPKEVKRLDTPGL ELWLVPNMAELSEPEGPVDWK ERCVALESQLMKFRVQASKIRE LLAEKLHHNERLEYRDQRKDS ASFQRKKQFTYKASGIEMASDL SKAPLEIRG
15231	45599	A	15321	3	755	LRLPRRSTRTRRGIVVRTGAAM GKVNVAKLRYMSRDDFRVLTA VEMGMKNHEIVPGSLIASIASL KHGGCNKVLRELVKHKLIawe RTKT VQGYRLTNAGYDYLALK TLSSRQVVEC VG\NQMVGK\ E SYIYIVANE EGQQFALKLHRLR RTSFRNLKNKRDYHIHRHNVS WLYLSRLSGMKEFCYMKQFCD EQGSQRLIHMMGGQMWA V PIC QPRDLFVWFVLRAEACAGCGA TSQQRGALGVTSTCYRD
15232	45600	A	15322	1	1028	MNKTITTQEEVLPLQADVQRE EELNSLKQKLAAALLAEQEPQP ERLVSELQL\PRKAAVFQDEILR SSRQLVLP ELGVHRHVLVCC GGLRCPLAGGLAAASVGR LGL VDCDVVEMSNLAYQVLHGEAL AAQAKAASAAA SLRGLNLAPP PAETVTNCADGGMLRVLTGVL GCLQPLKVLKIAASLGPSYSGS LLFDALRGHFCCIRLRSCRLDC AACGKWPTVTHLLDYEAF CGS SATDKCRSLQLLGPEDRVSVTD YKRLLD SGAPHLLDIRPKMEL PRKAAVFHDEILRSSRQLVLP EL GVL RHLLVVGCGGLRCPLAQY LAAAI VGR LGLVA YD VV
15233	45601	A	15323	92	778	QGTRRWSLGTCSLMTRTQFEV CTKVCVQESLQRPGEELKTRCP SVGAGYVNYGTPAHERI/GAAV KTGREADKPEVTKQTQFSTRK DE/TSLFGVPLQ*LLARHRAPP* RRT/RLLEVARTPMLPAQASR SELAARQDSAWASPAAPASPN/ RSVLRRCLLSAR PPLCGPL/LRV LPSWRRQQIRENSAED*LHSEY RANRIRRRRGHPEN/WTKS*LE NPENLTRSSSAPAPC
15234	45602	A	15324	142	500	

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15235	45603	A	15325	3	343	
15236	45604	A	15326	1164	1648	PLMTSAPWPSCCCWRSLSGRP AGRQRQLPTSITTANQPAPSR KKSTSRKKQRNLPAVSPAMVAI VRRSCDLYRWSVLHYASQERR VRDAAKPESD\RKRTTTKTRR/H WRYIKELESRQPGVADMRQQP TQLVEVPWNEQTPEQRQQTLO RQHGRETRCSV
15237	45605	A	15327	28	417	
15238	45606	A	15328	2	440	
15239	45607	B	15329	1	441	
15240	45608	A	15330	22	584	IRGRVDPPSAVEPPPKMQIFVKT LTG\KT\ITLEVEPLGYG*KNVK AQASRDK\EG\PPDQQL\IFAG KQ\LEDGRTLSDYNIQ\ESTL/ HIFVLRRLRGGAKKRKKSYTT\ PKK\IKHKRKKG*SLAVLKYYK \DEANGKIS\RLRRECPS\DECGC WGVYGVQVTFDRHYCG\KCCLT LLFQQTRMTSNCMS
15241	45609	A	15331	3	954	LDARRHWEGTPGFTHTSPDAW ADAWGKMAGEKVEKPDTEK KPEAKK\VDAGGKVKKGNLKA KKPKKGKP\HCSRNPVLLRGIG RYSRSAMYSRKAMYK\RKYSA AKSKVEKKKKEKVLATVTKPV GGDKNGGTRVVKLKMPRY PTEDVPRKLLSHGKK\PFQSHV RKLRSITPGTILITGRHRGKR VVFLKQLASGLLLVTGPLVLNR \VPLRRTHQKFV\ATFTKIDIS\N VKIPKHLTDAYFKKKLKRPRH QEGEIFDTEKEKYEITEQRKIDQ KA VDSQILPKIKAIPQLQGNLRS VFALTNGIYPHQLVF
15242	45610	A	15332	670	1008	WCILGVTPSLMSRTALFLSRHT FFA/RSHSAASKL/EKKKKEKVL ATVTKPVGGDKNGGTRVVKLK KMPRYYPTEVPRKLLSHGKK PFQSHVRKLKPSITPG\TILITG\ RHRG
15243	45611	A	15333	1	708	

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15244	45612	A	15334	1	1754	MRNEISDLTEELHQKEITIATVT KKAALLEKQLKMELEIKEKML AKQKPWACLVNAMP AIQVVFN LGRFRKCQDPHKAQEWVYPGY SGSDCEVFPEIMTSKNREEAMP EWKLWKKVVLSGATDAPSWD GPTFTDLNVFAGNMGLSDCTLS LGKIWKIPGHFLHTSGPVSFHT KGLLNTPTKERWVGFGGSEGR GVPEPGGCGVLAVPRRTPPSA AAMTGGERLGRAWAGDRAAA SRSAPVPGTFGMMGWRPVAFG KNAKAYRGFGGIVTSLTPSCDK VTLLFVRILPGSGQSRDQSSPEK LTDTKSTSNKAYGFPECLRRPE STHIFYDHQLGSEQPRGTKGT PLKWVSQKTLERETRQCQALVI WTD CDREGENIGFEIIVCKAV KPNLQVLRARFSEITPHAVRTA CENLTEPDQRVSDAVDVRQEL DLRIGAAFTRFQTLRLQRIFPEV LAEQLISYGSCQFPTLGFVVERF KAIQAFVPEIFHRIKVTHDHKD GIVEFNWKR/LSTL*PHGLPSSL SVVCGVRSLSCR SVGFCWRSTP DPVCLCITSGGCRTASIAEQQKL LPDPSYRSFIPEGQPPI
15245	45613	A	15335	3	125	
15246	45614	A	15336	764	1005	
15247	45615	A	15337	1	3533	MELVNCVLMSTLGNTCCPMAI AMFRSSSSLPRPGHSLTGSPLRV NLIHIKFPLNDFHQNVVKIKNK DPPLGAAIGKESCPIADNELHSL ERRPLSPKL VQALGVAGLSRPG PPHTGCAIWLLLITDHKLLSEIL YDLLHQGLDILADPPDEGGIPR GKNLVELLQLPGLEEDKAFQKE IGLKILVFKAYSTLSSDGPP LFS ALRSLQGVQSSKVGESREEKSQ TEEEDPGNPWVPQSLGASVSSS GKWGCLRTKP

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15248	45616	A	15338	1	2800	SISGPGQEAVPLRPKAEPPEGSG MVWDRQTKMEYEWKPDEQGL QQILQLLKESQSPDTTIQRTVQQ KLEQLNQYPDFNNYLIFVLTKL KSEDEPTRSLSGLILKNNVKAH FQNFPGVTDIFKSECLNNIGDS SPLIRATVGILITTIASKGELQN WPDLLPKLCSLLDSEDYNTCEG AFGALQKICEDSAEILDSDVLD RPLNIMIPKFLQFFKHSSPKIRSH AVACVNQFIISRTQALMLHIDSF TENLFALA
15249	45617	A	15339	8	450	TWSWSPQAPSWARPSSQARAV SLLVARGQLCQGSRRRSGVGSR VDAGAARTALRTLGTTPRLRRP CGLGSHETKAAASGQDGQRGS RGRGSLGGRELGANEPYQ/WR AHTLTVLFILTCTLGVTLLLEET PQDTAYNTKSEIAVVHLS
15250	45618	A	15340	246	559	MPVAVMAES/AFSFKLLDQCE NQELEAPGGIATPPVYGQLLAL YLLHN/GQRIWQRDFPGIYTTIN AHQWSETVQPIEALRDATTR RAFALVSQAYTSIIADDF
15251	45619	A	15341	129	915	RSGTQGRSAATAALNVIAGATP EGQSWGLAVRTVQRRGRPAK MPVAVMAESA\VSFKLLDQC ENQELEAPGGIATPKVYGQLL ALYLFHNDMNNARYL*KRIIPA IKSANSELGG\IWSVGQRIWQR DFPWG/IYTTINGHQWSETVQP IMEALRDATRETAPLPWVSQA YTS\IIAR*FCQPLLGLPV\EEAV KGILAEQGW\QA\DSTTRNGSCP GKPVCRGPWDVFPFNKFISLYS EP\APV\PPIPNEQQLARLTDYV AFLN
15252	45620	A	15342	1	529	MATLTISRAQTEDEADYYCHRI KLVKEGLDERTHKAYLSSSGK GCEFHMVKPGSPLGPDILGSWA QSALIQPPSVSGSPGQSVTISCT GTSSDVGSYDYVSWYQQHPGT VPKPMIYNVNTQPSRVPDRFSG SKSGNTASMTISGLQAEDEAD YYCCSYAGSYPVVFGGGTKLT
15253	45621	A	15343	399	737	WISGGNSCATT/LSDAGLSTTSN SIGSAT\GARQAESASSQSGGA LGRHCGASGKCAESLRREPVG ATNQWAPGWVVGRRPASDSSHV VIGLGRSAWSPAEVTPSLIPGRG RTK

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15254	45622	A	15344	1	4320	
15255	45623	A	15345	1	966	MNVNLAEEKSGKETVGDEIKG GGIQMVMLASQPLTSYCAARFI TGHGQKLKSELKKTLQVIMLNI QKVRIPTRDGYNEKDILSTGKN VEKLELSNIAGYPSNIEKKEYQE QSVLSCCSEKRDANPKSVVCSF FMQEQCTKGEKRFLIPGTLSD RHLRYFGILPTVSNAAVVKEVP TVSNAAVVTEAPTGSNAAVVT EAPTGSNAARVMEVPTGSNAA VVTEVPTGSNAAVVTEAPTGSN AAVVKEAPTGSNAARVMEVPT GSNAAVVKEAPTGSNAARVME VPTGSNAAVVKEVPTGSNAAV VKEVPT/GSNAAVVKEAPTGSN AARVMEVPTGSNAAVVKEAPT GSNAARVMEVPTGSNAAVVKE VPTGSNAAVVKEVPTGVTLRW SRKRPRE
15256	45624	A	15346	1	702	
15257	45625	B	15347	238	546	
15258	45626	A	15348	632	2361	FQSRTFLKNWNPGEQSQKII/CF QLGERAYQTDVLVKVPRQSSV FSENQRMNNPERWFESTGCGK TYNQNRFAFNQHQRFHSGEKTY EHNECGKAFSWPSILSKHQRIH TGKKLYTCEDCGKSFSVHSYFI QHCKIHTREKPYECIKCGKAFS THSSYVQHLKIHTGEKHHECNQ CGKAFSHSSNLIHHQRIHSGEKP YKCKEKGKAFNRQSNLIQHORI HSGEKPYDCKEKGKAFSTQLFL IQHQRIHTGEKPYECNECAKSFS LNRTLTVHQRIHTGEKPYRCNE CGKSFSQCSQVIQHKRIHTGEK PYICNECGKSFGARLSLIQHORI HTGEKPYGCREKPYECSECGK AFSQSFNLIHHQRTTHNGEKSYE CNECDKAFSLSSLVQHQRHIN GDKPYECHKCGKAFSQGSHLIQ HQRSHIGEKPYECNECGKTFGQ ISTLIKHERTHNGEKPYECSDCG KAFSQSAHLIHHQRIHTGENPY ECSECGKAFNVCSLIQHHRHT GEKPYECSDCGKAFSQHSQFIQ HQRIHTGEKPYMCNECEKSFS CLSLIQHKRIHTGEKPYVCAKC

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15259	45627	A	15349	3	354	EAFGGERSVSSTMSGLSGPPARR GPFPLALLLLFLLGPRLVLAISF HLPINSRKCLREEIQQGPASDW RVRDLRPVWGRWRPAQ/RTSRS QILLAIFSTPKRMQPRGNLPLTT EDYDMF
15260	45628	A	15350	283	393	YVYRRYGRFE*NDPSSALMST* GKRCQDCLDQRENKK
15261	45629	A	15351	1	351	
15262	45630	A	15352	1	867	
15263	45631	B	15353	1	1323	
15264	45632	A	15354	1	3669	
15265	45633	A	15355	362	1039	LESYLQLPSAEGKTVSVFGETC ATPVGP/AAGPHTQ/LAQNIVTS WLTGGRFIELKTVQILDRLELE KPCIDAEDCFNTEWSTFTLL KAWDEYLKAWFALHLEAMF QPSDSGKSFIFNMSVGYNLEGQ PLNPKNYPSQGVPRVLKSHRQD YLVGNKLSWADIHLVELFYV EELDSSLISFPLLKPTHVDNT KKGSHPHMCA YTDYVNNPND RMPQREITFVS
15266	45634	A	15356	74	208	QRLTKLRETSRRLLSWQRSPSS TTSMHGAESPPRWLLAAAGV EFEEKFIKSAEDLDKVRNDGYL MFQQVPRLRLMG*SWSRV
15267	45635	A	15357	308	735	NQRCTWAYSMTMEIFLISCVKT LSVRYAVQQLKTGVFCSLETQP SKMAPAKKGSKKKKGHS/AIIE VVTQENTINIQKHIHEVGFKKC APRALKEIQKFAMKEMGTPVV LIDTRLNKAVWAKRIRNVNRI HLCLSRKCNEDEKE
15268	45636	A	15358	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSH\SPMAGGLAG MGGIQNEKETMQSLRDLASY LDRVRGLETENWKLESKIQEH
15269	45637	B	15359	1	991	

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15270	45638	A	15360	40	1030	RGDPRVRRRTQSLSPVLSLSPDS MSFTTRSTFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTSFRGGMGSGGLAT GIAGGLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL \\ESKIREHLEKKGPQVRDWSHY FKIIEDLRAQIFANTVDNARIVL QIDNARLAADDFRVKYETELA MRQS\\VEN\\DIHGLRNVI\\DDTN YHTDLQLETEIEALKEELLFMK KNHEEEVKGLQAQIASSGLTV E\\DAPK\\SQDLAKIMA\\DIRAQ Y\\DELAR\\KNREE\\LDKYWSQQI EESTTVVTTQSAEVGAAETTLT
15271	45639	A	15361	1	438	LHSDDSLQMLRCSVPVATAASY TSGPGAPISSSSFSRVGSSSFQGG LGGGFGGASGIGGITAVMVNQS LLRPLNLEVDPNIQARF/VHTQE KEQIKTF/NNKFASFIDKVRFL QQNRMLEAKWSLLQQQKMAQ SNMDNMFQSYINNL
15272	45640	A	15362	176	1455	EIFPLVIQKSYKVSTSGPRAFSS R\\SYTSGPGAPISSSSFSRVGSSS FQGGGLGGGFGGASGIGGITAVM /VQVLHTQEKEQIKTF/NNKFAS FIDKVRFLQQNRMLEAKWSL LQQQKMAQSNMDNMFQSYIN NLRWQLETLGQEKLEAELG NMQELVEDFKKKYHDEINKHT EMENEFVLEIKDVEAYKNKV ELESHLEGLTDEINFLRQLHEEE IWELQSLISDTSVVLSIDSSHSLD MDNIITEVKAQYKEIANCSWAK ADSMYQIKYEDLQMLARKHGD NLRCTKTDISEMNQNVSWLQA EIKGLKGQRASLEATITDAEKR RELAIKDANTKLELEAALQW AKQDMAQQLRVYQELMNVKL ALDIKTATYKKLLEGEESWQES RMQNMSIYSKTTSGYAGGLSS AYGGLTSPPLSYGLSS
15273	45641	B	15363	70	915	
15274	45642	C	15364	62	217	
15275	45643	B	15365	1	612	

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15276	45644	A	15366	3	841	STPKMPKGKKAKGKKVAPAPA VVKKQEAKKVVNPLFEKRPKN FGIGQDIQPKRDLTRFVKWPRY IRLQRQRAILYKRLKVPPAINQF TQAL\DRQTATQLLKLAKHYRP ETKQEKQRL\LARAEEKKAAW PKGTFPTKRPPVLRAGVNTVTT LVENKKAQLVVIADVDPIELV VFLPAL\CRKMGVPYCIHKGKAS LGRIVHRKTCTTVAFTQVNSD KG\ALAK\LEAIRTNYNDRYD EIRRHWWGGNVLG\PKSVARIK LEK\AKAKELATKLG LNVHC
15277	45645	A	15367	2	1006	WINLKG NLLRKRSLTSNFWPCK LRSRKRHTTRNLRMNLWLSSH PPQQSNTKPWCCQLSCSTSLT LLGTSLPLLSYLIHLIPPGRQYP VIHRTSTLLLQHISVGKEKFHKS QHWGFCNNVMMMLQLQLSPLK GLSLVDKVNRPALSGTRVLAS KTAWRIFQEP/SEPKTAAAAPG VEDEPLLRGNPCR FVIFPIEYHD IWQMYEKA EASFWT\EEVDLS KDIRHWESLKPEERYFISHVLV FAASDGIINENLVERFSQIVQITE ARCFYGFQIAMENIHSEMYSLLI DTYIKDPKEREFLFNAI/ETMPC VKKKADWALRWIGDKEATYG
15278	45646	A	15368	3	1368	QAQPMGRVGGMAQPMGRAGA PKPMGRAGSARRGRFGKCWSE GSPVHPVPAVLSWLLALLRCAS TMLSLRVPLAPITDPQQLQLSPL KGLSLVDKENTPPALSGTRVL ASKTARRIFQEPTEPKTKAAAP GVEDEPLLRENPRRFVIFPIEYH DIWQMYKKA EASFWTAEVD LSKDIQHWESLKPEERYFISHVL AFFAASDGIINENLVERFSQEV QITEA\RCFYGFQIAMENIHSEM YSLIDITYIKDPKEREFLFNAI TMPCVKKKADWALRWIGDKE ATYGERVVAFAAVEGIFSGSF ASIFWLKKRGLMPGLTFSNELIS RDEG\LHCDFACLMFKHLVHKP SEERVREIINAVRIEQEFLTEAL PVKLIGMNCTLMKQYIEFVADR LMLELGFSKVFRVENPFDPMEN ISLEGKTNFFEKRVGEYQRMGV MSSPTENSFTLDADF



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15279	45647	A	15369	2	621	RFIKMLSRHHQHVVHVLPLLRA PLPVAMEEEIPALFIDNGSGM/C KSSFA/GDNALRAIFPSIIGHPRH QGVVMVGMGQKDSYVGDAQS KCGILTLKYPIKHGIVTNWDDM EKIWHHVIFYNELCVALEEQVV LLTEAPLNPRANREKMTQIMFK TFNTQAMYVAIQAVLTLHSSGC TTGIVMDSGDGVTHTVPIYERH TLPHTILHLDL
15280	45648	B	15370	1	966	
15281	45649	A	15371	2	228	
15282	45650	B	15372	1	816	
15283	45651	A	15373	256	384	RKLLNEAPC*PMR*HSLLNRLA TSCNSWTVPVVPKFSKLRRGL
15284	45652	A	15374	145	375	KIAGKNRLNRNQCKERKVQVL WISEKKKQREAVEDSPSLDCCH KFPPGS*ERLHG*KRGQWF*PP HTVEKQMRSCLL
15285	45653	A	15375	319	482	
15286	45654	A	15376	4776	5910	VCSTAGDVNGVCLLYDLLHIA VASGSAKGEFFARKPLLAEGV IYDCLQEFKEKKLVATPHAQV LSYEALLSAHDTIAQKDFEPLLP PLPDNIPESSEAMRIVCLVKNQ QPLGATIKRHEMTGDILVARIH GGLAERSGLLYAGDKLVEVNG VSVEGLDPEQVIHILAPRPCLS MSLADLPPLPREVLVLAKLPV PSSSFLLPREDCCGQPSSLIT WFAPLETEPGVDRAMSRGTIMF KVVVPVSDPPVNSQQMVYVRA MTEYWPQEDPDIPCMDAGLPF QKGDILQIVDQNDALWWQARK ISDPATCAGLVPSNHLLK/RIWT EPGICIFTKRLRCSGKQREFWW SQPYQPHTCLKSTLCEYCNCPT
15287	45655	A	15377	2	405	WSLVTRRALARVGLPG/SPPPRLL LLLPLLLGWGLRVAAAASASSS GAAAEDSSAMEELATEKEAEES HRQDSVSLTLFILLTLTILTIWL FKHRRVRFLHETGLAMIYGLEK ITIGVLDITGWPYCTIQPYNGFL
15288	45656	A	15378	1	3804	
15289	45657	A	15379	349	622	RPDVANLAFLARKEGTRKGFSL KKTAEASRWHEKWFALYQNV LFYFEGEQSCRPGMYLLEGCS GGTSPRSFRSSSRDSPISPLHPT AK
15290	45658	A	15380	314	483	

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15291	45659	A	15381	352	822	DPRRVQAFPAKMKFNPFVTSR SKNRKRHFNAP\SHIRRKIMSSP LSKELRQKYNVRSMPIRKDDDEV QVVRGHYKGQQIGKVQVYR KKYVIYIERVQREKANGTTVHV G\IHPSRVVITRLKLDK\DRKRIS DRKAKSRQVGKEKGKYKEETI EKMQE
15292	45660	B	15382	80	432	
15293	45661	A	15383	11	888	VKCRKAEGRRRESRLQTFEESQA VEAAMANVPWAEVCEKFQAA LALSVELHKNPEKEPYKSKYS ARANM\EEVKALLGPAP\EDED ERPEAEDGPGAG\DHALLGLPAE VVEPEGPVAQANRLRLA\VNEF HLGVNHIDTEELSAGEEHLVKC LRLRLRYRLSHDCISLCIAQT WRCIGVRDPPTSSCAFLSTSPTP VHSVKKIQTGPLRPSNSTLVD DMESSFQTCFASPLSQDYVNGS NQEEIGTGVDRCIHKFLDIARQ NISFLQKRLQLSVQKPEQVINED VDVSELRNE
15294	45662	A	15384	1864	2705	WPGKVL AHRGLHPWHRDPHGS GGGAGQELRRQGGCLEQLLYD AAHAQRLPPLDSVLPRAALPQD CQRASACEGDPTLLRPSHSPGH PRGAEER/VPSTACLQRSWEGR/ WNRALQQVGGGLKSPWRGEYK EPRHPPPNQANYHQT/ACPAE R/CFRQGPQGPGQLRRQQAEP SSSLLSHQSPQSQTSLLP*L*AR RSLGCGNPYLCPPWSQPLPETP AHQSGKQPSRSRNCSSWK*NYS STACPSHFLWRSRKSFRASAST ASPCRMTVRRTHQRPLKARGTP
15295	45663	A	15385	1113	1378	RPHAESFVSGGIPDPGPGPGST GPGPL/ERQPCSLTSWPREPPSSS SMKMLTQGPSLTAPYKGTILGE VNPAHAISSARNTSSRTSV
15296	45664	A	15386	285	722	TPAHPGVPPGQSGRHRHW/QSA ARSQLQPSAW*PKTGSLFATTW RCQTRASTCSAHWPLMAASPG AGGSSMASWR/DRP*PCPPPPAP HLPEAAFLLR/CHDACP*NTGSA VPRGSCQPPAQQWDQGLAATR WGQAERLPRIYNWALAPP

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15297	45665	A	15387	207	605	FQASAERFGTEDD/GSLRTRPPV MQSHQWPWRRPRPLVSRGRPQ TTPERHDSGGSLPLTPRMESH EDEDLA/EGCRWP/EAGTVGVP GPRAQGAAQR/QAVLARKKHR RRPSKRKRHWRYLELSWA EKQQRDERQS
15298	45666	A	15388	193	407	ACPKTSKNLRQRRLWNLAKHE F/SVDMTCGGCAEAVSRVLISLE VRVKYDIDLPNK/KVCIESEHS MDTLLATL
15299	45667	B	15389	321	625	
15300	45668	A	15390	275	690	SLWPPVIRG/SPKGNRPAILTYH DVGLNMANKKSGDHPEREGTP RSFREVVSFAFGPGSSKLQIPKGS APRCGVPGRGARRELQSFRA GPRTQGGSPVGPCQSRRLRSAQEE SAKARHGGLRAHRSFSWDIRM SSKERKFS
15301	45669	A	15391	2	137	PGRYRPN*LLLSDASPGAGNEF QSTFLTPTILPSLRFPVLYTPNS
15302	45670	A	15392	1	648	MSLRKLTIMVEGKGGPNIPHAC GCRQRSSIKVSLPAVTSKSESP KEPEQLRKLFIGGLSFETTDESL RSHFEQRRRLTDCAVMRDPNT KCSKGFVFTYATMEEKYHTV NGHSCEARKALSKQEVASASS QR/GRSGSGNFGGGHGGGFGG NDNFGHGENFRGHSSFGGSHG GSGYGGSGDDYSGFGNDGSNF GGGGSYNDFGNYSNQSSNFGP
15303	45671	A	15393	1	3629	MTGICYTEDERSYKKNAQPTA ASKKQKETQKFCRLVDGQQKV KLSVLQEKSAQLTVQLKSQKFL GHPTAGRGRSELCLDLPDP PEDPVALETRSVGTWVRERDLGMP DGEAALAAKVAVLETQLKKAL QELQAAQARQADPQPQAWPPP DSPVRVDTVRVVEGPREVEVV ASTAAGAPAQRAQSLEPYGTG LRALAMPGRPESPPVFRSQEVV ETMCPVPAAATSNVHMVKKISI TERSCDGAEMKWEDQNIGD

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15304	45672	A	15394	1	1515	MGQVFRVVTGVGEQPGHPDQF PYIDSWLSIIQNHPKWLQACFET YCKTLMAQIKPGTIERDCKASV KEKDSQEKQKKPVLQAPPEELE SPALYAPIYPSLARLRQEAAAPA APRGSDSEESTPQATPCREEPEP LPEKETSSSYRSNAVHFLIHNPT WADCKQLLQSLFNTEEHRVI QAAFQWLENNAPAGTGYIRQY AQQALPIEADTGWDPNQAQGL QSLQWYREALLNGIKAGGKKA TNIGKVSEVCQKPDESPSEFYER LCEAYQLYTPFDPEAAGNQCM VNVAFVSQAQGDIKRKLQKLE AKAVLRGKFIALNTYIKKAERA QTDILRSHLKKELKKQEQTSKA SRRKDVTKIRAELENEIETTTKI QKINETKSWFFEKINTINRPLAR LTKKSREKLQITSLRKEMGDTT TDTTEIQKIIQGYEHLIAHKL NLEEMNKFLEKYNAPSLNQEEL HTLNRPIRNEIEVVIKKLPKK/ SPGQDGFRAESYQIFKEALV
15305	45673	B	15395	1	1077	
15306	45674	A	15396	69	290	YYFDSPHPLHLSGTLRPGGSRQ FPCDPQFLCRLLHTLASL*SLPG DLLRGLLHKLVCVERLDLASL YAVGR
15307	45675	A	15397	62	201	
15308	45676	A	15398	3	429	LPSSVPRQPKMQARCLSRISRA VEIYESDLEEGQGLLHEFSQFVL DRPPPTQSRYAQELVHTCYLHT LASL*SLPGDLQRGLLHKLVC AERLDLASHHAAVGRSEFFW TPYTHSPPGAGVGHPFPWHTRL PWGVPAEGHQ
15309	45677	A	15399	303	612	PSSSIPVYHCSLRGICIPVLGLKR AANVGVSLEASPLSTPGGLGI CLSCGGTRTVGSRVGSIFPW*G EGTTGITGSISCKGSSDVGSNRT SGVDFPRRVE
15310	45678	A	15400	1	273	

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15311	45679	A	15401	1	406	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EATDPPGVKLQTFVSVTTHKG SVDPNSEKQQDLLQRAKEQSFH SVEGDPSRDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTAPNTQTA SPRALADSLMQLARQVSR*RAI SCCPSH*LPSAKCISVSGIGGFL VSLTSRMKPRTLLE
15312	45680	B	15402	1	930	
15313	45681	A	15403	391	617	LQLQPTG/CNFLYFYVGYMKIL GFCFHIVEERGGCLWYPCFYC NLSLLGG*RSCSHTRIVPSLLMP KLGPGGQVC
15314	45682	A	15404	1	1860	
15315	45683	A	15405	1	531	
15316	45684	A	15406	2302	2691	
15317	45685	A	15407	520	2883	
15318	45686	A	15408	3690	4727	ENCHWGCEHPCDIGSSIILSPLA YWEQYHRVTYISRDTEGSIIVFP ALVTMLRNLFIILAGSSDPHFHT PMYFFLSNLSWADIGFTSATVP KMIVDMQSHSRVISYAGCLTQ MSFFVLFIACIEDMLLTLMAYDR FVAICRPLHYPVIVNPHLCVFFV LVSFFLSLLDSQLHSWIVLQFTF FKNVEISNFVCDPSQLLNACS DSVINSIFIYLDSIMFGFLPISGIL LSYANNVPSILRISSDRKSKAF STCGSHLAVVCLFYGTGIGVYL TSAVSPPPRNGVMASVMYAV VTPMLNLFYISLRNRDIQSALRR LLSRTVESHDLLSQDLLHPFSC VGEKGQPH
15319	45687	B	15409	1	3195	
15320	45688	B	15410	1	1819	

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15321	45689	A	15411	399	1089	LLTPRTDLQEMPLDNAEIEWYT DGSYLRGEVFQWYDHLALIFVP QTGIEDVIWHIEALPNYIQKVCE RRNPYNQILSLQCAQHEIFLVS WKLVCQKLEGDDMLVGTTA SNLLESEQSTSNLNEKINHLEY EDQYKDNNGEGNDGGILEDK LISN/NMGGPDSPDSVNPVE/P/M PTMTDQTTLVPNEEEAFALEPI DITVKETNAKRKRKLIVDSVKN LDSKTIRAQLNDY
15322	45690	A	15412	3	809	FKDDDMVLVSTTTSNLLESEQS TSNLNEKINHLEYEDQYKVDNF GEGNDGGILDCLKISNNDGGIF DDPPALSEAGVMLPEQPAHDD MDEDDNVSMGGPDSPDSVDPV EPMPTMTDQTTLVPNEEEAFAL EPIDITVKETKAKRKRKLIVDSV KELDSKTIRAHLSDYSDIGTTLD LAPPTKKLMMWKETGGVQKLF SLPAQPLWNNRLLKLFTRCLTP LVPQDLIKRRKGGEADNLDEFL KEFEHPEVPREDQQQ*HQQRD VIDEPII
15323	45691	A	15413	1	595	MVNRSHFRGVGEPCHQQNSHG HLNSITETSNSPTLRAAPLQPTR DPSDMAVFEIDELPEGAVKPPA NKYPIFFFFGTHETAFLGPKDLFP YKEYKDKFGK\SNKRKGFNEGL WEIENNPGVKFTGYQAIQQQS SSETEGEGGNTADASSEEGDR VEEDGKGKRKNEKAGSKRKK YTSKVTKLLIVINVICISIKHF
15324	45692	A	15414	41	785	GKGWAGGASGPANHGPAAGG RSPGMLRGDQGLPGRGAAGM ARPRSRE\YKAGDLVF\AKMKG YPHWPARIDELPEASVKPPTNK\ YPIFFFWHPMKPAFLGPQ\DLFP Y*EYRGKFGK\SNNRKGFNEGL W\WEIENNPGR\IRFTGYQA\IQQQ SSFRTEGEGGNTADASSEEGD RVERDGKG\KRKNEKAGSKRK KSYTSKKSSKQ\RKSPGDED\D KDCKEEENKSSSEGGDAG\NDT RNTTSDLQKTSEGT

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15325	45693	A	15415	1	1272	MWSGAGPGLAVWPQLVTVLSL SLSRLNCKWGLSFLACLLLG MADAAMQHYGVNGYSLHAM NLSAMYNLHQQAQAQAHA PDYRPSVHALTLAERLADIILEA RYGSQHRKQRRSRTAFTAQQL EAEKTFQKTHYPDVVMRERL AMCTNLPEARVQVWFKNRRRA KFRKKQRSLOKEQLQKQKEAE GSHGEGKAEAPTPDTQLDTEQP PRLPGSDPPAELHLSLSEQSASE SAPEDQPDREEDPRAGAEDPKA EKSPGADSKGLGCKRGSPKADS PGSLTITPVAPGGGGLGPSHSYS SSPL/SPLPSAGAIPPAHGGHQ PGALLVLRSRGSGPCCCSGGCC CALPGRQHGPAGLTA/SASPTTS PCQQPLLP/SQGVWGSPLLPAPP AGLAPASATLNSKTTSIENLR AKQHAASLGLDTLPN
15326	45694	A	15416	1	1152	
15327	45695	A	15417	8	82	
15328	45696	A	15418	1	1350	MGSEKDSESPRSTSLHAAAPDP KCRSGGRRRLTLHSVFSASAR GRRARAKPQAEPPPAAQPPPA PAPAAAQGPPEALPAEPAAEA EAEAAAAAEPGFDDEAAEG GGPGAEEVECPLCLVRLPPER PRLSCPHRSCRDCRLRHYLRLEI SESVPISCPECSERLNPHDIRLL LADPPLMHKYEEMLRRLAS DPDCRWCPAPDCGYAVIAYGC ASCPKLTCEREGCQTEFCYHCK QIWHPNQTCDMARQQAQTLR VRTKHTSGLSYGQESGPADDIK PCPRCSAYIIKMNDGSCNHMTC AVCGCEFCWLCMKEISDLHYL SPSGCTFWGKKPWSRKKILW QLGTLIGAPVGISLIAGIAPAM VIGIPVYVGRNIHSRYDGKEN\S KHKRNLAITGGVTLSPVIA AVSVG\IGVPIMLAYVYGVVPI SLCRGGGCGS
15329	45697	A	15419	2	540	

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15330	45698	A	15420	1	530	SRTTPGKAPKETWGQDAGSGK GGQGPPTRKPPRRTSSHLPPSPA AGDCPILATPESPPLAPETPDE AASVAADSDVQVP\GPAASPKP LGRLRPPRESKVTRRLPG\ARPD AGDGDHLSAVAERPVS LHF TETDGYFSDGEMSDSDVEAED GGVQRGPREAGAKE\VVRMGV LAS
15331	45699	A	15421	1	2989	MLLVMYWAPAPPPVHMSQFLT TGPKCLELSLDHGRDSQEITAS GLLWLQHAACGLAQWNQKPH PPFLTLLQAEPPFERARSCDIYIR IKMLQTAQQHQVGLAPTERKE ALRGSQSPQKSASGQRPGSLDR ELLMLIKISKCLRVPSPSSVLG TESTGPVPGELVLCQQDAGATQ EGVCYGRELMICRCDSPRLME PWGVKGTPEVFRDITAMKIP DSYQLSPDDYYILADPWRQEW EKG VQVPAGAEAIPE
15332	45700	A	15422	218	404	
15333	45701	A	15423	1	422	
15334	45702	A	15424	160	470	LTMLFAACVFSGDEIMASEERQ PMEEWSRSSTISGEDGERWTP DTAGKAAQGIAGDVVWVSPLP PSKVSAASKPPKSHHPFFKWH NFSNLMKMFYKMYFSKN
15335	45703	A	15425	21	375	TFENTRFWDVQIPVPTGERRNE WALPPPGAGSV PAGGWSRPLTP GRCD SQGRGRSRAAPLSRSPL PPLRRSPTLPGEPPAHRPLRVH PRHGPRPSHLACLNSQAPDASR LRASANQ
15336	45704	A	15426	155	340	



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15337	45705	A	15427	1	2658	MIINTIITTTTTITIIIFIITIMSSSPIT ITNIITIIQHSHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLGP NSTCSRLPELTDSEDCQPADSP GDEDPKPWWDPPEAPLTGYF HPYGAAFVPRHAGNFKDRREV PHQDTSFCSAGQFWILPSACKT GRVALTLTLIGAYQTLTEADV KGLTAARAASPGAKWRTQFPC PAGTCSSQAGNGQLEDCLPYPP GPSAPVGSLSRSSANGEFIIGRVI KAMNNSWHPECFRCDLCQEV ADIGFVKNAGRHLCPCHNRE KARGLGKYICQKCHAIIDEQPLI FKNDPYHPDHFNCANCGIKLG VFLTDRKDLTADAQELKGELY CLPCHDKMGVPICGACRRPIEG RVVNAMGKQWHVEHFVCAKC EKPFLGHRHYERKGLAYCETH YNQLFGDVCFHCNRVIEGDDE GDGFAHRYSPYDSCEVDQSPLE GQQLKSIRKGPLAQSQLPTPV MLHPGCKTQIREAPGSAALSV RRRPRPGLVPEESESAAVEAV RHHHLQNFSSRLLETNGQKLG GHFCDVTVCIHEASLRAHRCGL AIGSPSFQDKLLLGPEIRVPSV VPVQTVRQLVELLYSGSLVVA QSEAPQVLMAASVLRIDSYRR MHADYRTRSSAPASTSAPALP TPVPPPLAPEQLRHRLRHLAA
15338	45706	A	15428	708	892	
15339	45707	A	15429	2	713	
15340	45708	A	15430	212	1246	DLPLAVHGVSDSGAQAVASR SGDESSIVCLKEESTVNMFTFRCS LPLAVISVVSFTAKCQVKSEFII GRVIKAMNNSWHPECSAVTSA RKFWQILHLSRMLVDRKDLTA DAQELKGELYCLPCHDKMGVP ICGACRRPIEGRVVNAMGKQW HVEREQYMDPGILSALIDPKYL LILSHRGLHMKSMKGFYFAKL YYEAKKEYDLAKKYICTYINVQE RDPKAHRFLGLLYELEENTEKA VECYRRSVELNPTQKDLVLKIA ELLCKNDVTDGRAKYWVERA AKLFPGPSAIIYKLKN/DGWVRG QMVPKPDDEGVQVRGRSGRPD AGWRLNRRSSVGSAWRLRPQ

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15341	45709	A	15431	129	444	WGGPGRQPDGGRVPGRCGPRR PATWESPAACRPRPQSRHHSFE *GGSRS GSSHKRPCSPSPAVLRA RDQVVLHTSFEATEGDSSHEDR STPLARRCLCSHRSGEA
15342	45710	A	15432	1	2446	METSLMVQVCGGRDCNALLPG NLCSQPTQVLPLEVDGDDGPG GLPLNAAPPSSVPPVPPSEALPP PACPSAPAPWRSIISRLFGTSPA AEAAHPPPGGALDFGALRTSSC LSQSHGHIPGGPGLGLGAVRVP VPSEEDPASLFTEPVPAAEAPAT VQSVEDFVANDRLDRSFLEDM TPARDEKKVGAKAAQQDSDTG RASRAPEQQIPHGGHWRGHSRS YERFRPPDMVSAGPGPSDGEAL GGNPVAGFQDDVDLEDQPRGS PPPPAGPVPSQDITLSSEEEAEV ADPPKGPAPAPQQCSEPETKWS SIPASKPQRGTAPMTAAASPWP GGASVHTGLEKCSSTRPPAEIEP GKGEQASSSESDPEGPIAAQML SFVMDDPDFESEASDTQCRAVR RVLPAQRAENAYGSAFQPGAL KPECRPTLKGGPGVPVPSKAGKK TEATSPRPTGGASPLAHGATVG AAWGLGMASWPIGSSLAPTRA RTREPLQRRVGSELPGDPCSG SGASCRQVCARGRATSVRLPAL ESLWPLSSDGSAAREGLEGPR LRQAAAPGGPGPPLPPLSRPPSP ARRMRGGA VAGRGAAAPLE GRVRLGVGFLAETAVRAGAGA LAAADAPPGSRTPRARPLVAAG SGAAGGRCPVPSRRQREAPSPL GGAGVDLQLECLTSEKAGVGA ATGGVLEALARAIRQKEIEEIQ

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15343	45711	A	15433	26	963	FMIWAGQNRKVQDFVIQLRML TPVVPPQAAPNAQQPRAAASA PQTRVRAPRWPLGNVVVLGTE DAAGPSRPASEPPASPALPGPAL ELGLPNHPKQT/HRPRLAPRRSH PKDSCTIFKLNSFLKNIKFNNSV GDQVNL DYKLISGTEYDILNFW NFRILAKTGCSKDGHNRNPSRP TQEEGSGKPKKSLVKFRSGAQE DLPVPPEEKLELSGTSMPCCFS KTSYGIPHIYILSYKGTTATAG HRWPAAYPAPLNCSPPPETTM PVSDLGSPLHWASRIATPPSMW LCCLLAAALRVLA VSNSSAEVY SQS
15344	45712	A	15434	803	1305	RSKPCRSSHNVFSWWAHSRPC CPWSGYSSRLCCLSCCITLGPY QLKNRQQRNGSYKSFGNVLCV GNRLLFWVWII FQKGGRS/WLP RSDWVTSYKVMVSNDSHTWV TVKNGSGDMIFEGNSEKEIPVL NELPVMVARYIRINPQSWFDN GSICMRMEILGCPLPGWEH
15345	45713	A	15435	2	377	ARELLKAVWRPHKVA VMHCR GHQRASTLVGLGNSRADSEAR KAPSAPFRASVTAPLLQAPDL VPTYSKEENDFLQAKGGQVME EG*IRLPDGRVAAVVLAVHETT HRGQELLEKLLGWYFYISH
15346	45714	A	15436	77	679	KMKTNQMGLKSKVEMNATIS EIRLNINRKDVEYQQEILQLEAV WKLHKVAVMHCKGHQRASTL VGLGNSRTDSESPKAASAPLRA SVTAPLLQAPDLVPTYSKEEK DFLQVEGGQVMEEGCIRLLDG RVAVPQLLGAAIVLAVHETTHL RS/ESSLGKLLGQLFSTISHFVSL CQNL TQRCVTCRQH NARQGPA VPPGMQ

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15347	45715	A	15437	2	881	HARCTGIAARAGLLDPRHTGEA LAARSRIDLARRPHWPRGCGTG GGGGGCAGLGGAWLRGNDVA VPARALVTAAPASSSMSPPIPA AARPVSSSPAASPSPRCGLRAG PAELRCPRRLRQARAEEPPRAG PAPGRRRPTPGICAPLSPRLRA GGTAPSLPGVTRGSRVGRRLRP SLGGAGCRVGRPPRLLPPGRR CSTGLPPPAGTGAPAGVCWED GDPGHELAAALLRRLGGQIRAL AGHRTAGWAQHGLSPREAVRP APAARGTLLLRNSRRHLQNP ANFGGTLAT
15348	45716	A	15438	3	502	GRRDSCLPGVVAPRACLHPRG QVPRLGSVGKMATPGMSWQQ HYYGGSAAKFAPSPATAQLAG HSMDYSQEMHLKMSKKIAQLT KVIYALNTKNDEHESAIQALKD AHEEEIQHILAETREKILQYKS KVTEELDLRRKIQVLESSLEDHI KMKQQALTEFEAYKHR
15349	45717	A	15439	29	230	LQIDCKNKPAILRGPTDPLKEA DCYCRTWERPQILLPKWEGTR KPILVI*QNAHQHAPQITLLHQ
15350	45718	A	15440	73	335	FFWGGIEEPCFVILSGSVFWFLL IWVGASASPVVGDVFGRRGSPF PTSTVGAFVTLWGVSWVLKRV CGSSWDC*FVLAINLELKFTM
15351	45719	A	15441	373	513	
15352	45720	A	15442	1585	1649	KNSNIQHSPKITLVHQQWFQTK KKFLIYLKKNSSGLVDP*MVHT TRLCADNPQYQPRARKSHS*VK GESTTLREHPMGQKNLNNSLQP
15353	45721	B	15443	1	696	
15354	45722	B	15444	49	525	
15355	45723	A	15445	113	474	SIPYKNKEEEEGKGGEYYIKGT CHGTKGSEQQPSALDLPSPDRAY PNEKEPEN*LW*LI*QNKAL*HS PKNHTSSP/RNGSKPRKSLINL KKNSGG*LLS*LGRHQRKVKN ARKSKNQYKK
15356	45724	A	15446	47	614	TGCPCKQNSTCIAAVKMEGPL SVFGDRSTGETIRSQNDVTITN DGATILKLEVEHPAAKVLCEL ADLQDKEVGDGTTSVVIAAEL LKNADELVKQKIHPTSVISGYR LACKEAVFYLTENLIVNTDELG RDCLINAAKTSMSSDIIGINGDF FAN/MVVDVAVLAIHARHRGQ/P RYPVTLLY*SHGES

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15357	45725	B	15447	707	1826	
15358	45726	A	15448	108	397	
15359	45727	A	15449	1726	2464	SKAVQLEAGLLQLFCCCKMAP DPNITDVFGRTALHYAVYNEDT SMIEKLLSYGANIEECSEDEYPP LFLAVSQRKVKMVEFLLKKKA NINAVDYLGRSALIHAVTLGEK DIVILLQHNIDVFSRDVYGKL AEDYASEAKNRVIFELIYAYER KKHEELSINSNPVSSQKQPALK ATSGKEDSISNIATEIKDGQKSG TVSSQKQPALKDTSKNDSDSVSN TATEIKDEQKSGTVSSQKQPAL KDTSDKNDSDVNTATEIKDEQK SGTSVFSETTGLEGYK
15360	45728	A	15450	2	675	
15361	45729	A	15451	1	467	DHSSSPAREQNWMEFEDEL EVGFRRWVITNSSELKKHVLTQ CKEAKNLEKRLGELLTRITSLE KNINDLMELKNTARELHEAYTS INWINQAEERLSEIEDQLNEIK REDKITEKMKNSTTVRVAASM QSKLLQGVAAEGLRLRTRASF
15362	45730	A	15452	2	632	
15363	45731	B	15453	355	894	
15364	45732	B	15454	99	716	
15365	45733	A	15455	1	1140	
15366	45734	A	15456	1	1476	MEVNREKQLNELEVIGSEEQNL EEEGLMIGGVAVRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGVSQKNPRALGVADQLH AIFTTMSDEQASFRFGFVAIYLT EPLVRGFTTAAAVHVFTSMK YLFGVKTTRYSGIFSVVYSTVA VLQNVKLNVC SLGVGLMVFG LLLGGKEFNERFKEKLPAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFRRWVITNSSELKEHI LTQCKEAKNLEKRLLELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIR\EKKRMKRNEQSLQ EIWDCVKRPNLRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKGNPIRLIADLSADTL QARRQWEPIFNILKENFQTRISH
15367	45735	A	15457	1	1185	
15368	45736	A	15458	1	2367	

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15369	45737	A	15459	1	744	
15370	45738	B	15460	337	1515	
15371	45739	A	15461	1	1197	
15372	45740	A	15462	1	714	
15373	45741	A	15463	142	601	HQRTKVYKFTKMRKNQPKKPE NSK/TQNPSSPSKDHNSLPAREE NWMENEFDKLTEVGFRRWVIT NSSELKEHVLVTQCKEAKNPDK RLEKLLTRIISLEKNINDLVELK NTA*ELLEAYTNINSQIDQVEEK I/S/SIEDQLNEIKLEDEIREKKKK
15374	45742	A	15464	153	474	QTKSNNVNIKKQDVHTKTPSEG HQHQRPK\DHNSLPAREQNWIE NEFDELTEVGFRRWVITNSSEL KEHVLVTQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
15375	45743	A	15465	1	2172	
15376	45744	A	15466	1	1640	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRJG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPLDHTPAGNC YVVRNEDCIGFFSGFYNVISL GVYLVEQKQGWEDTHSKTPSK GHQHQRSKVDKSTKMRKNWS KNAENSKNQNALSPNDRNSSP ARAQNWENKFDKLTEVGFRR RQVITNTSELKEHILTQSKEAKN LDKRLQELLTRITSLEKNINDL MELKNTARELREAFSTFCVNCE AVSLITSLREDSHWLEDSKGRH M/RRHQE*KCEYFHPPHGLQF YQLPESDSHSDPLWPHGGSFLS
15377	45745	B	15467	50	1603	

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15378	45746	A	15468	528	1413	QTERNSTSTSKTPSEGHQHQRPKVDKSTKMGRNQCKKA*VNSK SQNACCPPKDHSSLPAREQTMENEFDELTEVGFRRWVITNSS KLKEHVLTQCKEAKNLEKRLE ELLTRITNLEKNINDLMELKNT ARELREAYTSINSRIDQAKERM SEIVDQLNERNDRENGTKLENT LQDITQDNFPYLARQVNIQIQT QRMPPQRYYSRRVTPRHIIVRFA KVEMKEKMLRAAREKDTSVK QKVNKDIQELNSALHQVDLIAI YRTLHPKSTEYTFFSAPHHTYS KTDHIVHSILCDSG
15379	45747	A	15469	368	679	SSQLNKAPSLFNPVSEEFCLWL LLLQKELLTRITSLEKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
15380	45748	A	15470	865	2055	QTERNSININKKDNKYAKTPSKG HQQQRPKVDKSTKMRKNQHK KA*KFKPKGMPSSPPK\DHNCSP ARE\QNWMEN\EFNEFDEL TGA GFRRWVITNSSSELKEHVVTQCK EAKNLEKRL\QELLTRITSLEKN INDL MELKQDITQENFMKHTQ VSIAQADQGRKERVSEIEDPTL MDIKCEDKIREKK/IKKRNEQSL QEIWGYVKRPNLRLISVPESDG ENGK*ENILQDIIQENF/PFPNL TRQANIQIQTQRTLQRYPLRR ATPRHIIIRFTKVEMKEKMLRA AREKGRVTHKGKPIRLTENLSA ETL*ARRE**PILNILKERNFQPR ISYRAKLSFISK/GKREIKSFIDK QTLRDFVTTTPALQELLKEAVN MERKNQYQPLQKHTKLKRPLT
15381	45749	A	15471	1	315	
15382	45750	A	15472	1	2775	
15383	45751	A	15473	1	1017	
15384	45752	B	15474	1	3105	

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15385	45753	A	15475	1	1115	MKWLLLLGLVALSECIMYKVP LIRKKSLRRTLSEKGLLKDFLK KHNLNPARKYFPQWEAPTLVD EQPLENYLDMEYFGTIGITPA QDFTVVFDTGSSNLWVPSVYCS SLACTNHNRFNPEDSSTYQSTS ETVSITYGTGSMTGILGYDTVQ SGYHHGNHRLNLKGLCSSKRSS TTPPLYDLGQVASPPSGSVSSC DDQSGSVVIFGGIYSSYY\TGGL NWVPVTVEGYWQITVDSITMN GEA\IACAEGCQA\IPEPTFFVT GP\TSPIA\NIQSDIE\SEELDGD SVLICSAISS\LPDI\VTINGVQY PVPPSA\YILQSEGSCISGFQGM NLPTSEELWILGDVFHPASTLT VFDNRANNQVG\LAPVA
15386	45754	A	15476	1	765	
15387	45755	A	15477	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSSGE YLRPTPSYLNQVVRVTMT
15388	45756	A	15478	1	896	CLPFGGPKPNPWDKDGQCQGR PQPRHLPGPGTAAQRRQCPSE KSL/CRWPSLTASTCSRLFYIL LHVGAS/CNLLPPAVKDSSGKG VGQDTQVLSGSGAVYRVCAGT ATFHLLQAVLLVHLHSPTSPRA QLHNSFWLLKLLFLLGLCAIAF CIPDEHLFPAWHYIGICGGFAFI LLQLVLITAFASWKNKNCNEAS YLAEVFGPLWIVKVYSYEFQKP SLCFCPPETVEADKQQRGGAA RPADQETPPAPPVQVQHLFLQL FCLPLRLLPWLTLCHGYPYQLV QASAGCGCKPFAPYSL



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15389	45757	A	15479	1	1016	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGSLSVVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGGPGGLGLPSH AARPSTDFTQAAAAAAVAAAA ATATATAT/GHRGCSPGEAEPG AEPDGAMGAGQSFNSQFLQHG GPRGPSVPAGMNPTGIGGVMG PSGLSPLAMNPTRAAGMTPLY AGQRLPQHGYPPGPPQAQPLPRQ GVKRTYSEVYPGQQYLQGAYP VHSGLSQFPTWQETPRHP
15390	45758	C	15480	1	585	
15391	45759	B	15481	1	885	
15392	45760	A	15482	3	440	GPWPRPVAYLSKQLYRVSKGW PPGLRALAEMALLAQEADKLT LRQNPNI/IGPHAVVTLMTTKG HH*FTNARLTYVKIPT*PLKF/G NTLNPTTLLPVSESPVEHNCVD VLDSVYSSRPNLRDHP*TSVDC ERYVDRSSFTNRCKVTR
15393	45761	A	15483	3	368	
15394	45762	C	15484	109	276	
15395	45763	A	15485	1	1710	
15396	45764	A	15486	221	784	QNSLRSMCQKEKKMAAGVLT HTC\GPWPRPVAYLSKQLDRIS KGWPPGLRALAATALLAQEAD KLT\GKT*I*RPPHAVVTLMNT KGHHWLTNARLTKYQSLLCEN PHITTEVCNTLNPTTLLVSESL VEHNCVEVLDSVYSSRLNLRD HP*TSVDW*LHVDGSSFTNPCK VTLKKMTSAAPVTPRS
15397	45765	B	15487	509	661	

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15398	45766	A	15488	1370	2243	LGKLRLESCGLVA AVRPHSGGL AMPLPNATRPASGRSED/AELK LALEHGHRSESLQGRKHRGVH DNSDIPQAALVGGTTMIIGHVL PDKETSLVDAYEKCRGLADPK VCCDYALHVGITWWAPKVKA EMETLVREKGVNSFQMFMTYK DLYMLRDSELYQVLHACKDIG AIARVHAENGELVAEGAKEAL DLGITGPEGIEISRPEELEAEATH RVITIANRTHCPIYLVNVSSISA GDVIAAAKMQGKVVLAEETTA HATLTGLHYHHDWSHAAAY VTVPLRLGIPPH
15399	45767	A	15489	307	600	VSRRASSGSPVPLGSLHLQHSA PA/PSAAPKPRSPPARLSRPHLR GESAAPSPSPGPASLAAAAAA RVPAQSPAPSTTPAPRTTLAPR VPHRLAPAP
15400	45768	A	15490	3	222	
15401	45769	B	15491	1	1131	
15402	45770	A	15492	136	201	
15403	45771	A	15493	3	556	ELPRRLVCSKL RADPGRLTPDA CARPGMSRYLLPLSALGTVAG AAVLLKDYVTGGACPSKATIPG KTVIVTGANTGIGKQTALELAR RGGNIILACRDMEKCEAAK\D IRGETLNHHVNARHLDLASLKS IREFAAKIIIEEERVDILINNAGV MRCPHWTTEDGFEMQFGVNHL GHFLLTTWC
15404	45772	A	15494	11	559	
15405	45773	A	15495	1	312	MAPAADREGYWGPTTSTLDW CEENYSVTWYIAEF SWLMSGF LPTPSSLRDLTASRWVRS LPPSR SPAGRQPGPAEELPKASPCPWG KSLSRPFASF SASSGPS

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15406	45774	A	15496	2	1605	WQLPHPPAAPSARQILRACQLS SVTAVAQSCLYGKQLC/GLTTG NIAGAGLLFFGGGIGGTILYAK WASHFRERVEKTIPYSDKLFEV VLGSAPYNVPLPKKSTQSGPLK ISSVSEVTKEFKQPASQLQKQK GDTPASATAGDTVLVPGVQHE ESLKTDHPAIDEGKPTPALSEEA SSSSIRERPCEEIAACLAQEEKQ EQVKTESLAKSFEDALRQTANV TLQAIAAQNTVVQAVNAHSNIL KAAMDNSEIEGKKKS AKWHTV QGALKEHRKAVDEAANALLKA KEEVQAAQFESKLVSQYHELV GQAQDDFKRQLDSITPEVLPGW KGMSVSDPADKLSTDDLNSLIA RAHRHIDQLNRELAEQKATEK QHITLAEKQTL EEKVQEQLK YEF EQNLSEKLSEQELQFHHLS QEQVHNFTLDINTAYARLRGIE HAVQSHAVAE EEAR KAYQLW LSVEALKYS MKTSSAEMPAVPL GSAVEAIKANCSDNEFTKALAT AIPPE SLTHGVYSEETLRVRFYA VQKLARRVAMID

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15407	45775	A	15497	89	2490	PKCCFFCLLSGETAAQSCLCG KVVLRLRPLRRCRRYSTSGSSGLT TGKIAGAGLLFVGGGIGGTILY AKWDSHFRESVEKTIPYSDKLF EMVLGPAAYNVPLPKKSIQSGP L*ISSVSEVM\KESNRPASQLQK QK\GDPASATAPTEAAQIISAA GDTLSVPAPAVQPEESLKT DHP EIGEGKPTPALSEEASSSSIRERP PEEVAARLAQQEKQEQVKIESL AKSLEDALRQTASVTLQAIAAQ NAAVQAVNAHSNILKAAMDNS EIAGEKKSAQWRTVEGALKER RKA VDEAADALLKAK*LLMDF NKEELEKMKSVIENAKKKEVA GAKPHITAAEGKLHNMIVDLD NVVKKVQAAQSEAKVVSQYH ELVVQARDDFKRELD SITPEVL PGWKGMSVSDLADKLSTDDL N SLIAHAHRRIDQLNRELAEQKA TEKQHITLAL\EKQKL\EEKRAF DSAVAKAFRNIHRKLYRA*TG QKR*KEVRDAMENEMRTQLR RQAAAH TDHLRDVLRVQEQL KSEFEQNLSEKLSEQLQFRRLS QE QVDNFTLDINTAYARLRGIE QAVQSHAVAE EEARKAHQLW LSVEALKYSMTSSAETTSNPL GSAV\EA\KANCS DNEFTQALT AAIP\PESLTRGVVTVKRPLGAR F\YAVQKL\ARRVAMIDETRNSL YQYFLSYLQSLLLFPQQLKPPP
15408	45776	A	15498	1	1212	MPKKRQALVEFEDVLGACNAV NYAADNQIYIAGHPAFVNYSTS QKISRPGDSDDSRSVNSVLLFTI LNPIYSITTPTRLNVFKNDQDT WDYTNP NLSGQGDPGSNPNKR QRQPPLGDHPAEYGGPHGGY HSHYHDEGYGPPPPHYEGRRM GPPVGEYGPHADSPVIMVYGL DQSKMNC DRVFN VFCLYGNVE KVKISLKKQSPGGRPMGEEWL\ DGYAVDRAITHLNNNFMFGQK LNV/CVGAQAREGSRGTGERK GGEWGPAEEHSEAEVLTHTEM GCGSVSKQPAIMPGQSYGLEDG SCSYKDFSESRRNNRFSTPEQAA KNRIQHPSNVLHFFNAPLEVTE ENFFEICDELGVKRPSSVKVFSG KSERSSSGLLEWESKSDALET L GFLNHYQMKNPSINLVT

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15409	45777	A	15499	1	645	
15410	45778	A	15500	3	677	SPPNPRAPYLFPASLQNPANWS PHFQYLPILSQPRSVLTAFRQQA QPRISMPQAQTPFRPQMERLDQ NIRRSNQPQHSLKPKLIQSKALT LFNSVKAEEKDEEAAEEKFEVTR VVHIRGLIDGVVEADIVEALQE FGLISYVMVMSKKRQALVEFE DVLEACNAVNYTADNQIHIAG HPAFVNYSTSQKISRPGNSDD\R SVNSVLLFTILNPIYSITTDVLYT
15411	45779	A	15501	2	1712	DEQRRRSGAMVKMAAAGGGG GGGRYYGGGSEGGRAPKRLKT DNAGDQHGGGGGGGGGAGAA GGGGGGGENYDDPHKTPASPVV HIRGLIDGVVEADLVEALQEF PISYVVVMPKKRQ\SLV*FEDVL GAGNAV\NYAADNQIYIAGHPA \FVNYSTSQKISRPGSDSDSR\SV N\SVLLFTILNPIYSITTDVLYT\I CNPCGPVQRIVIFRKNQVQAMV EFDSVQSAQRAKASLNGADIYS GCCTLKIEYAKPTRLNVFKNDQ DTWDYTNP\NLGGQDPSGNPN KRQRQPPLLGDHPAEYGGPHG GYHSHYHDEGYGPPPHYEGR RMGPPVGGHRRGPSRYGPQYG HPPPPPPPEYGPHADSPVLMV YGLDQSKMNGDRVFNVFCLYG NVEKVKFMKSKPGAAMVEMA DGYAVDRAITHLNNFMFGQK LNVCSKQPAIMPGQSYGLED GSCSYKDFSESNNRSTPEQA AKNRIQHPSNVLHFFNAPLEVT EENFFEICDELGVKRPSSVKVFS GKSERSSSGLLEWESKSDALET LGFLNHYQMKNPNGPYPYTLK
15412	45780	A	15502	1	528	NHQIRNDFTISPGVKADSRTSPI PQQPASSFDITEAAVSFAKDSLA GGVAAAISKMAVAPIERVK/RV PKEHGVLSWCGNLASVIRYFP\I TQALNFTFKDKYKQIFLDGVDK RSQFWRYFAGNLASGGATGAT SLCFVYPLDFAHTRVAADVKG AGAERELRGFGDCLVKIYKSDG IK
15413	45781	A	15503	1	1452	

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15414	45782	A	15504	2	991	RSAGVKAGSRPSPVLQQSASSF NMTDAAVSFAKDFLAGGVAA AISKTAVAPIERVKLL\LQVQ\H ASKQIAADKQYKGHIGCVVRIP KEQGVLSFWRGNLANVIRYFPT QALNFAFKDKYKQIFLGGVDK RT\QFWRYFARNLASGGAAGA TSLCFVYPLDFARTRLAADV GK AGAEREFRGLGDCLVKIYKSDG IKGLYQGFNVSVQGHIIYRAAYF GIY\DTAKG\MLPDPK\NTHIV\ S WMIAQTVHCCCPG*LPYPFDT RS/VRRNE*MQSGRK\GT\DIMY TGTL\DCWRKIARDEGGKAFFK GAWSNVLRGMGGAFVVLVLYE *KSKKYT
15415	45783	A	15505	1	613	
15416	45784	A	15506	1	1695	
15417	45785	A	15507	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERVSA MEDEINEMKRE EKFREKRVKRNEQSLQEIW DYL KRPNLRLIGVPESDGENGTKLE NTLQDIIQENFPNLRQANI QIQ EIQRMPQRYSLRRATPRHIIVRF TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRE WGPIFNILKEKNFQPRISYPAKL
15418	45786	A	15508	1	3156	
15419	45787	A	15509	1	879	
15420	45788	A	15510	1	804	
15421	45789	B	15511	1	1230	
15422	45790	A	15512	2	827	
15423	45791	A	15513	1	1011	
15424	45792	A	15514	1	1722	
15425	45793	B	15515	1	780	
15426	45794	A	15516	1	2712	
15427	45795	B	15517	1	855	

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15428	45796	A	15518	3	1263	GRTIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERVSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWVYVVRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQGRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
15429	45797	A	15519	1	1137	
15430	45798	A	15520	1	1578	
15431	45799	A	15521	1	1656	
15432	45800	A	15522	1	1120	
15433	45801	B	15523	1	1541	
15434	45802	B	15524	1	1632	
15435	45803	C	15525	53	352	
15436	45804	A	15526	1	973	MGKKQNRKTGNSKMQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELQRVSAMDE MNEMKREGKFREKRIKRNES LQEIWDYVVRPNLRLIGVPESD GENGTKLENTLQDIIQENFPNL ARQANIQEILRIPQRYSSRRA TPRHIIVRFTKVEMKEKMLRAA REKGRVTLKGKPIRLTVDL TLQARREWGPIFNILKEKNFQ RISYPAKLSFISEGEIKYFTDKQ MLRDFVTTRPALQELLKEALN MERNNRYQPLQNHAKM
15437	45805	A	15527	1	2896	
15438	45806	B	15528	50	658	
15439	45807	A	15529	1065	1260	RSHALALDSAGSSSPESPH*RAS IPHTALGQNAGSWAGTAHSHH GPFLWSDPRHPQVVPHTCCP
15440	45808	A	15530	96	219	EFSTKPRLSGP*SSWEMLILEPL APDTTIDLKLLYSRDF

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15441	45809	A	15531	5459	6324	LLANVSQLLADISQLLANFTQL FSHFSQLLTYLSKLFTHLPQLLT HFPKLLTHQPELFSNQSQHPNI TRYSPSPSYSPSPSPNYTPTSPN YSPTSPSYSPSPSPSY/RDLTKLL PFQPTIHTTVSNLYPKLTQLQPQ FAQLQPNLTQV\PTSPSPSPSSP EYTPTSPKYSPTSPKYSPTSPKY SPTSPTYSPTPKYSPTSPTY\Q PLQSTPQPLPSTHLLAPLTRPLP PSTRPPAPPTRPPPPKAQPTLPLP LVTRPPAPPTVSQARLSARMTV TRRTEGTWGAAAG
15442	45810	A	15532	13	941	SVVLRPLLVAATAATTPVAA AAATNTAKKTATVMVGEMVA GERGVLQMGHDIRFFYSNIQT VINNWLLIEGHTIGIGDSIADSK TYQDIQNTIKKAKQDVIETFEN QVPRILNDARDKTGSSAQKSLS EYNNFKSMVVSQAKGSKINISQ GGGSQGGRGPPISMWLLALC LVGLAGAQRGGGGPGGGAPG\ GPGLGLGSLGEERFPVNTAYG RVRGVRRELNNEILGPVVQFLG VPYATPPLGARRFQPPEAPASW PGVRNATTLPPACQNLHGALP AIMLPVWFTDNLEAAATYGGC FRVPKKA
15443	45811	A	15533	207	696	TNLQEKKNQPHQKVGKRYKQT LLKRRHLCSQQAHEKMLIITGH QRNANQNHNEIPSHTS*NGDH* KVRKQQMLERMWRNRNAFTL WVG*TSSTIVEDSMAIPQGS TRNTI*LSHPITGYIPKGL*IMLL *RHMHTYAYCGSIHNSKDLEPT QRSINDRLD
15444	45812	A	15534	1	307	
15445	45813	A	15535	1	381	LPPPHDRLWCVMFPTLCPSVLI VQFPPMSENMRCLVFCPCNSLL RMMVSSFIHVPTKDMNSGIL*S RPADIELFSINLVNKKIFLKGKF GDPLSLQRQLRNIVFSMPCCFPS FLLPWVFSQLSVKPH
15446	45814	A	15536	134	278	DPAFLAPSPV/LMKQAPQATSG LMEPPGPSTPIVQRPRILLVIDD AHTD
15447	45815	B	15537	1	840	
15448	45816	C	15538	1	891	



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15449	45817	A	15539	1	3102	MYSHVITVCRHVKNGDILLNR QPTLHRPSIQAHRRARILPEEKVL RLHYANCKAYNADFDGDEM AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFRTREHYMELVY RGLTDKVGRVKLLSPSILKPFPL WTGKQHINRTKDKNHMIISSIDA EKAFDKIQQPFMLKTLNKLIGD GTYLKIIRAIYDKPTASIIINGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEK
15450	45818	A	15540	1	779	IPMKDHDIAIKLFIGQIPRNLDEK DLKPLFEFEGKIYELTVLKDRFT GMHKGCAFLTYCERESALKAQ SALHEQKTLPGMNRPIQVKPAD SESRGEDKKLFVGMNLKQQSE DDVRR\LFEAFGNIEECTILRGP ERQTAKGCAFVKYSS\HAEAAG RPSTRLHGSQTMPGAFVPVWV GQVSADTDKERTMR\RMQQMA GQMGMFNPMAIPFGAYGAYA QALMQQQAALMASVAQGGYL NPMAAFAAAQMQQMAALNM NGLAA
15451	45819	A	15541	1	1413	MEYYAAIKKDEFISFVGTMWK LETIILSKLSQMOKTKHRIFSLIV LCDITDILKEFTVAEAGGFALNE IMKEICKSRFSAKVSLHWKMW HSTASLGYHRVNVTPDPLNLC LGHCWLGLRDTGQKQACGGP GVCPGMFRRACGGNAPCKEAP SVTEASSPDGSLCLGSHVPITP APLSSAQMVCHMVEDRRTVEL ILGATHNLFFSTSPLTWSLRAIP GNCVFLFKDYVTEPVRSQSILHI AGPTFKQTPNLPFLKFPEATKA HGPVNYQNDSTCPEPTAQVSH WSSVSSTLIASPVPGPEDRKLFV GMLNKQQSEDDVRR\FEAFGN IEECTILRGPDGNSKARPLASSQ GAPSVKYSSHAEAQAALNALH GSQTMPLMQQQAALMASVAQ GGYLNPMMAAFAAAQMQQMAA LNPNGLAAPMTPTQANGQP AAEENFANGIHPYPAQSPTAAD PLQQAYAGVQQYAGR

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15452	45820	A	15542	254	883	DLRKDSPWEHRQCDKREPGNS APPAPHSWGFAVFNPRAGDVR QLCKRADTRTPSPRAPFGSAGA CRGCGRAGARSLASPKARTCIS SARRRAGGPLQLGAGSGQAKR PDR*TRREGANA*KTLHL/HSSL APSPGGVLAGFQEPGRPVAC CAATAAGGIRAGERR/PAAAAA AAPWAQKLRLRLQRRGPPGC R**MVSFPRLFSGSTR
15453	45821	A	15543	1	768	MCDFGKSTSLPASPTSSSANGR DNSTYRLKEQGGFMHVSASRD SCAESARYTDAHYAKSGYGAY TPSSYGANLAASLLEKEKLGFK PVPTSSFLTRPTYGPSSLLDYD RGRPLLRPDITGGGKRAESQTR GTERPLGSLSGSGFPYGVN NCLSYLPINAYDQGVTLTQKLD SQSDLARDFSSLRTSDSYRIDPR NLGRSPMLARTRKELCTLQGL YQTASCPEYLVLDYLENYGRKG SASQVPSQAPPSRVP

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15454	45822	A	15544	85	2249	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEIKAKNYDK GEKLFQRCLMKVLHIDLWKCY LSYVRETKG\KLPSYKGKMAQ AYDFALDKIGMEIMSYQIWVD YINFLKGVEAVGSAENQRITA VRRVYQRGCVNPMINIEQLWR DYNKYEEGINIHLAKKMIEDRS RDYMNARRVAKEYETVMKGL DRNAPSVPPQNTPQEAQQVDM WKKYIQWEKSNPLRTEDQTLIT KRVMFAYEQCLLVLGHHDPDIW YEAAQYLEQSSKLLAEKGDMN NAKLFSDEAANIYERAISTLLK KNMLLYFAYADYEESRMKYEK VHSIYNRLLAIEDIDPTLVYIQY MKFARRAEGIKSGRMIFKKARE DTRTRHHVYVTAALMEYYCSK DKSVAFKIFELGLKKYGDPEY VLAYIDYLSHLNEDNNTRVLFE RVLTSGSLPPEKSGEIWARFLAF ESNIGDLASILKVEKRRFTAFKE EYEGKETALLVDRYKFMDLYP CSASELKALGYKDVSRAKLAAI IPDPVVAPSIVPVLKDEVDRKPE YPKPDQTQQMIPFQPRHLAPPGL HPVPGGVFPVPPAAVVLMKLLP PPICFQGPVQVDELMEIFRRCK IPNTVEEAVRIITGGAPELAVEG NGPVESNAVLTKAVKRPNEDS
15455	45823	A	15545	12	427	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSIL IREAQV**YRITFPSLVVQSHYL VLPVNNIFIILTL*MLFIGFQF*N QPIDKARKTYERLVAQFPSSGR FWKLYIEAEVTILFYFFLYQYCS IHL
15456	45824	A	15546	150	469	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEVTILFYFIFS YISIAAFTTVVIENKLG
15457	45825	A	15547	1	834	
15458	45826	A	15548	443	732	SFMRWQKGQLPQLCLHRESHC SPYPQPSFLGMEP/ADIHETTFN SIMKCDVDIHKGLYANAVLSSG TTMYPGIA\NRMQKEITALAPS MMKIKIAPA

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15459	45827	A	15549	1	1214	MEEIEAALVIDNGSGMCKAGF AGDDAPRAVFPSIVGRPRHQGV MVGMGQKDSYVGDEAQSQRG ILTLKYPIEHGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTE APLNPKANREKMTQIMFETFNT PAMYVAIQAVLSLYASGRRTGI VMDSGDGVTHTVPIYEG\YALP HAILRLDLAGRDLTDYLMKILT ERGYSFTTTAEREIVRDIKEKLC YVALDFEQE\MATAA\SSSSLEK SYELPDSPRSSTNWQLSGFRLPL RHSFQPSFLG\MESCG\IHETTF\ NSIMK\CDVDIRKDL\YANTVLS GRTPPCTLGIADRMQKEITALA PSTMKIKIHAPPERKYSVWIGGF HPWAWLSHLSSKMWVQQARS MTESGPLHSSTANGFLGGLLTL VAFTPFLWTKP
15460	45828	A	15550	1	2355	MKQITFAPRNHLLTNTNTWTPD SQWL VFDMRTSGASFTGETIER VNIPTGYVEKPNKQCRHSVTRY GHGGHSDHTPSLT VATVATQIT PRHSGHSGHCDRNLSLATATA ATLITPHLLWPRWPLGSHSVT WCGHGGHSDHTPSPTTATAVT RITSRHPLRPQQSLGSHPVTHYS HGSHSDCIPVTRYAHGGHSDHT PSLAMATAATQMALCHSLWPR QPLGYLVNKIRRKRCTDGVSPS GKAPVFDTGIPWFESRYPSHLL RVSGSPPGYWGI AKRHQILNVS NMFGKFKTNLLGYRQAVRHRI LIPAFRGSNPRT PANLFKTLTLIS NMRALENDFFNSPPRKTVQFG GTVTEVLLKYKTAIEKRLEKLA VDPHRDRAQMLKVENVQQAW QQWINKLPPARREDEDVKEIR WMIEELRVSYFAQQLGKNSRA ESMLWSFHKAAIEAARTNIIQA QTRVEAAQATERRIAADIDDSE LKAPRDGRVQYRVAKPGEVLA AGGRVLNMVDLSDVYMTFFLP TEQAGTLKLGGEARLILDAAPD LRIPATISFVASVAQFTPKTVET SDERLKL MFRVKARIPPELLQQ HLEYVKTGLPGVAWSFLYSINQ TICRLDSIEAKLQALEATCKSL EEKLDLVTNKQHSPQVPMVA GSPLRTTQMCNKVR/CVNP*AT VVPPPVPQPTTQQYQGLDAGA

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15461	45829	A	15551	1	956	MSSGRRDALARGLGNSGDGAP HLGEHRQLEDVGGVTVTVTWT GRLQAAGCWTRSVSSTAAGR REPSTRDGAALSTEPPDPPERLG HRGSRAGLTALGHVTRGSSQ RGG RPEPWEHWLENGTRRTEL VDGVSYESWRRRPCRQLESR LVLENHVATDEDEPALKCQRL EINCQDPSIKSFLYSINQTICLRL DSIEAKLQALEATCKSLEEKLD LVTNKQHSPIQVPMVAGSPLRT TQMCNKVR/CAMHWLCVSCIF TCLPGWRPAAPDQGPAAISLCS LPSSSQGHREPLALGLPSALPPA HRQRLRGSATVPIPP
15462	45830	B	15552	161	925	
15463	45831	A	15553	31	856	GGFLHHASFFVGRGRTLLMYFS LLGATPKPEPEPEQVIKNYTEEL KVPPDEDCCIIMEKLSAASGYS DVTDSKAVGPLAVGCLTKCSH AFHLLCLLAMYCNGNKGPEHP NPGKPFTARGFPASATFQTTP GPQELVPYTPQITAWDLEGKVT ATTFSLEQPRCVFDGLASTNDT VWLVVAFSNASRGFQNPETLA DIPASPQLLTDGHYMTLPVSPD QLPCDDPMAGSGGAPVLRVGH DHGCHQQPFCNAPLPGPYPYR WVVPTGALGLGLCLG
15464	45832	A	15554	827	1371	GSSAGEASSSLRRLSPSQPISRPL LPAGEKVLVVWIEDQTSHNIPL SQQSKT/TLFNSMKAERGKEVT EEKLEARRGWFMRFKERSCFPN VKVQGEAANADIEAVACYPEY LAKITDEGGYTEQQIFSVDATA LYWKKMPSRTFLARRKNCHSH PSFSSQHLVQSAAINIKAKSSTS KKIMTP
15465	45833	A	15555	799	906	FLNKLAFALRCGLALNSFLRKI QEPSLG/SKSGSLS
15466	45834	A	15556	143	560	

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15467	45835	A	15557	1059	1940	QQMQQEMRRKSKWMAMLGK WETYQNS/TKGHLMKRVYKGI PMNVRAEVWSVLLNIQEIKAK NPRQYRVMKEKGKRSSEHIHQI DLAVSQTLRNHMFRRDRYGTK QQELFYILLAYSKNPVVGYCR DLSHIAALFLLYLPEEDTFWAL VQLLASERHSCRVEQLPLGLH AARPGDGHGQPRHLPCVASLL GAFRTSLLTVPKEPGTDPPEPKS DAFHHPQKKASHPPRGCPCLCPG ATPSGSDSVQLALRNLRVLLPF SCSGSSCPWYPRKEALHPGGLE EQRGLQPLMGLVTG
15468	45836	A	15558	123	448	ALAAAVYP SHSERTGEEAKKIC SVR*LLRSAQEEI/FLRGKNSRT GVL*KLLQRK*RYQRALGLAM LSEWTISPKGPVSTGITKPMMLTA SRVTVPMTMSALLDFIHGA
15469	45837	A	15559	1	6387	
15470	45838	A	15560	52	3218	
15471	45839	A	15561	3602	4015	GSVESPLGQKTPRTSSASPCWPS TNLYRMELELYGPHVTSQVVK STRCAPIRWSAAPSILCEVRVPV TMWTCLPLPATGRLSMW*IWP RQWPCVLTSATQS*LTRCGGGT RAVSLAPQSHL*VCPAQSSWTS IILWT
15472	45840	A	15562	932	1316	RVQDIPAKRGIPQFRPKIKGIGQ SYKQHYPARPWNVLAQKV/V FEDQDALLPCLLTDPVLEAGVS LVRVRGRPLMRHTNYSFSPWH GFTIHRAKFIQSQDYQCSALMG GRKVMSISIRLKVQKAVNRA
15473	45841	A	15563	1	263	
15474	45842	A	15564	66	185	
15475	45843	A	15565	1	4217	MRLAEERAALAAENADGEPGA DRRLRLLGTYVAMSLRPAAGA WERCAGSAEAEQLLQAFGLRD AAEGPRLLVVRPGRGLAIRP GLEVGPEGLAGAKALFFLRTG PEPPGPDSEFRGAVVCGDLPAAP LEHLAALFSEVVLPVLANEKNR LNWPHMICEDVRRHAHSLQCD LSVILEQVKGKTLPLPAGSEK MEFADSKSETVLDSIDKSVIYAI ESAVIKWSYQVQVVLKRESSQP LLQGENPTPK\VELEF

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15476	45844	A	15566	26	494	RPGCGEWLGNAELWGQECQL HYSPPVSPWENSSGPRFSISKTG SLIPPLLNDICQNQKQIILSHPA RCLGLLDHFPQQWERRQAQNR AETG*GQRSAQGGQTFRQRPLSV SGNCRVPPRATVSRK/PRPAPAY ALSLKSPRRRPPRTGPAPGLVP
15477	45845	A	15567	1	1242	
15478	45846	A	15568	114	1219	VDLPPGAPVRQSGSHGSVLRDH KTEGEARVLP LHQRVGKAGGR GATPGPHVEDPVTICCGHSFC RP/C/ICLSWEEAQSPANCRA EPSQKKDFKTNILLKNLVTIAR KASLWQFLSSEKQICGTHRQTK KMFCMDMDKSLLCLCSNSQEH GAHKHYPIEEAAEEHREKLLKQ MRILWKKIQENQRDLYEERRT AFLWRKRTLRLKGMTSGAQGT SQKVALGLLQQPLCHTVRAQS NSARVHKQRGGDAVSSGAGIP DPKAQRFPATLRSQAFTCTAGR RWGSGETVLHPLQRAGVRGAV AELHRQLLLSSSAAGFEECEGL CTSGPHITQGPDHQELYLSHEG VWTLFTCTGDRWKVLSGVPCP

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15479	45847	A	15569	1	2694	MRMAATAWAGLQGPPLPTLCP AVRTGLYCRDQAHAERATDVV LLAPFCQPKTRSHGTCPPTERDP RGEGSTIEYPGRVDGIQGWGTR ALTGWTDRLLCQACQTLPPR HWFLPGARGWLGGSPCAHGQE SLPSQSPILLRVESVKSRMLRR RAQEEDSTVLIDVSPPEAEKRG SYGSTAHASEPGGQQAACRA GSPAKPRIADFLVWEEDLKLD RQQDSAARDRTDMHRTWRETF LDNLRAAGLCVDQQDVQDGN TTVHYALLSASWAVLCYYAED LRLKLPLQDYPTRPPTGRPAC/ CAWLGIPNVLLEVVPDVPPEYY SCRFRVNKLPRFLGSDNQDTFF TSTKRHQILFEILAKTPYGHEKK NLLGIHQLLAEGVLSAAFPLHD GPFKTPPEGPQAPRLNQRQVLF QHWARWGKWNKYQPLDHVR RYFGEKVALYFAWLGFYTGWL LPAAVVGTLVFLVGCFLVFSDI PTQELCGSKDSFEMCPLCLDCP FWLLSSACALAQVREEAGRFLF DHGGTVFFSLFMALWAVLLE YWKRSATLAYRWDCSDYED TEERPRPQFAASAPMTAPNPITG EDEPYFPERSRARRMLAGSVVI VVMVAVVVMCLVSIILYRAIM AIVVSRSGNTLLAAWASRIASL TGSVVNLVFILILSKIYVSLAHV LTRWEMHRTQTKFEDAFTLKV
15480	45848	A	15570	1	924	MISQFIPENYFSGKSSATSGWA RAQRDFRVGAGSARPALLSGRL APPALGSERLSTRASSCGGLPR ATPRGRAPPPATRHVPSTAQR LRSAAARQRLAGSSARGRDAL GKASWAPESVLEVLARAVRQE KEIKGILLGKEEVKLSLFAGDMI VYLENPIISAQNLLKLMSNFSK VSGYKISVQKSHAFVYTNNRQS ESQIMSELPFTVATKRIKYLGIQ LTRDVKDLFKENYKPLLNEIQE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPIKLPMTFFTE LEKTK\FIWNQK\RAHIAKTIL
15481	45849	A	15571	1	825	
15482	45850	A	15572	1	1488	



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15483	45851	A	15573	1	1476	MPIKVDWIKKSRTHTPRDTMSP KRGINISIQEYRNTPDASILSELR LERDTNTQVYTYEQEHTNKN GHQAIDKQNKGHIRRESDRGEY YPLDCRPTGSLTDKGWGMLLC GMMTAGKPTPILTFLLDVGLPG GTAINKSSVIRVRNREEGNVEK WGERQVDQRDVAVMRVRCGIR NNVEAGLKYGPGTMKVSLSVF YTTQOCRRYLSVLCFAGLARAS VPFNEDFQMSLDEKLFSNLHPL GSSSSPPKSLHLCPLLEHQFTML GFSDLGAQLASPSGSHTRAAGV AACQPAPTLTWLSPWVARGLG TLEQGVVLVGEARAAQEPMEW VGGSCMVGCRSRALPRGKAAK AWREIQRSAGAGGAPVSPWSG GAPSRACPPSASSVRFLCAARR LACNTYSPVLYCVRNWWILGL TDFNNEATDPRDPFLANVPGQL AAVAIGTCGDNVYSAGDRDYR FALESILKACTLALALEEVGPPA VQDKIGADPTGLPF
15484	45852	A	15574	140	448	GFLGACAGREFKMAPP*SSLG *KLSVSPCPGLLISAEGPEAVFSI V*NARVRGFILEVSETKNPPIPD TISTKHASLMSDSYREKKLVPV VYPHSSTPSFQ
15485	45853	A	15575	1	1001	MEAPQGALEQDGPVLSQQRH RKKPFTATPIDPSYHRSHAISLS VIIGYCVPPSHAAEMAAYGWT MGKSKLMAGQWITQSQVFCDS STDGPRQHKAQTAILTKLQSQQ RSTNNSTVSHRQQWVNCRLLR VKCQRLRAHKELLPVQRWLWR QGRCVPTTSLVAVSETAGAGA AALALSRLCRCLQVSASARPFS SRTLSPQPKCWAMAASHQPIKG ILKNKTSRTSSMVALSEQPCRT VHEELSKKCKKWDEMILSTY HPADKDYGLMKIDEPSPPYHG\ LTGDDENACSDTETTETMVSDI LAKKLAAAEGLEPKYWVQEQE SSGEEDLLAEE
15486	45854	A	15576	1	1851	
15487	45855	A	15577	73	418	GKPDGDKVSQHLLLWKG/YSF/ PPSLMKLSLAGYEILS*KFFSLR TLNIGPPLSSGFRVSAERSTVSL MDFPLCITQCFSPAALNIFSIST LVNLTIMCLGVALLEQYLCCVL
15488	45856	A	15578	2	460	

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15489	45857	A	15579	1	2031	MATEVFLIPYALLQCSLASYP KPGIYVPSQPMWVGSVTCSDQ KNTIEVLVPKAYTLARQQYKSL SEQVYSCHQGTLNTRAQESAAS LLKPARPRTRQKKETPNTSEHQ KEQTLDTPLRTVTLTTRVRGFI LEVSETKNPPISDTMGLDISKQE EVLGRESDEQGEQSQGLSEMQ TALAMLLTREPISAKQAPHEPP RRQEDNTQAREGETRSRKTRA EGQKGHAHAENERNAKERESE RKRQEAEDENGKEKQERNEG T HARHMKRRKRDEKKRQGQNK PGNKRPEGNEEAQRRRKNRE RQRFSEFYQSGPSAAGLLVFAGG PLQSLFAWVSPLEAAEQRFSL VPSSGPLRKFCIFYGFVGNATP LRGLNTHGRLLTPAHGTRRRHT RPLNSPVPEKAGSTTESNGSPY GQNPGLPPKGNRAQGEKWM GRRIQGTTRPRAREANHKKMT QIMFETFNTPAVYMAIQAMLSL YTYGCTTGIVMDSSDGVTHTV P IYEGYALPRAILCLDVAGRDLT NYLMKILTEHSYSFTTMAEREI VCDIKEKLYYVTLDFEQEMAT AASSSSLEKSYELSDGQVITIG N ELSCCPEALFQPSFLSMESCDI H KTTFNSIMKCDMDIRKDLTYNT VLFGGNNMYPGIANRVQKIVTL VWMGSSILALLSTFQQMWVSK\
15490	45858	A	15580	485	886	VPYFHFTCSHSSASQLPFLQMM KIAKTCSLGLNRLPEAKLKAFP TPRVTSW/WRQGRPRR\GCGR NRSGSLVSAARGVGGRSQA AA ARRDAPSPPATSRMPPRQGS VS WGCARNAPGRRADPEVRRQPG PSCT
15491	45859	A	15581	1	435	
15492	45860	A	15582	2	339	HRCSTGAFSTAASNSNADRPP P ARRRGLPR/RGPP/SRRRSRPP R REPWRTRRPRTRTAKARRRAT LEGRCCRACGHWPRAAAAA A AAAAAAVAAAAAAAAAAAAAA A GASATW

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15493	45861	A	15583	1067	2093	RRNTSSKCRSRNCRCPSPHRH RPSLRPRSQQPKCKCRPSRRSS RAPSSRRSRPQGLVPC*RAPPW PTSRWPGSPGFLLNCSRKGRC RPRHPSQPRCPCSLRWCPSRQ LWSPHRESPPCP*TSRGSAWRS VSHRRQQDRPWWTQPVHMQQ LLKLKQQA VQQQKAIQPQAAQ GPAAVQQKITAQQITTPGAQQK VAYAAQRALKNPVSYHTHLP PETGRGPASADPDGCKTSSSCS TANTRGQHPASCLCFAGFSTD CGAHAGDGGRAAGADDPDCSDR DCPGGSAETHSAAGGDHGVGP APDSRRSQSPGARQLRQPKPA AQVTDEGPCCQAKDTY
15494	45862	A	15584	10	607	RALCGESRLPLARKLS*AKKSV QRSTLQSRRIWVCWFHFAN*SL F*KQGRT*ESPL*L*LIPAS*RPS TSESPPL*KANFQQPHRGL*EKV AEGRRGP**EY\YTSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SNNSSNSRHHRRRRRRLLSFLSR RRRHSCCLSRSPRRRPRRHP ARLWLRSRCTDQRKNFQLPRK TV
15495	45863	A	15585	217	1012	AKNSDKRQNFGRGQPTFGAD KAKGERVRTSSTIRTSYLDIT GPYLTGQWPRDPHGHPSCMK DKATQTPASCWAEEGA EKRS HQ RSAISWGSADQLKEETPTDLQQ NAQQKLYKPEEVGCLISDFLKE KENCQPRILYAGKLSSECTPDE EAVNIVEMITKDLEYINLVDK EWQGLRGLTPILKEVLRVKCY QTASHATKKS GMKGKVSQFGK LHCYFKKLPLPLPSATAILISQ LTSTRQELHHKKDCNLLKTQMI
15496	45864	A	15586	2	387	
15497	45865	A	15587	1	165	LFMFFCLLYIR*QLLHPGYNAPF QNTAATRGRGIAQTAPAAAFQL FLHQRVRFHC
15498	45866	A	15588	172	359	PDGDGIESINYLGQYGHFHDIDS SYP*AWNVLFPVCILFYFIEQWF IVLLEEVFHIPCKLDS
15499	45867	B	15589	1	2850	
15500	45868	C	15590	1	2835	
15501	45869	C	15591	78	491	

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15502	45870	A	15592	1	5721	MAVLSLPLAPPTLMPPAHFNLV EMQVKATLKEYWQRKSPGIPA GANRKKKINGSSPDATSGGYH SPGDSATGIYGEHASSATLED LELRQPTPSTSPNDCSLYPSPQS SSNSSSLHAPHSQYRELAVALH SSSAIISQLSENINSLNNENKSAL QLERQVKELKLGELKETVTSDP SNNGWEAVTSLWEGERLPARG AEEPRGSESTAAARPVPVSPAA VRGRLVAGEPGSYQPAETA AQLSLMALPGEY
15503	45871	C	15593	178	1287	
15504	45872	B	15594	52	855	
15505	45873	C	15595	1	1698	
15506	45874	A	15596	302	617	NLAVNPSGPGFLIGKLLIISIS EHVIGLFRDSTSSWFLGRVYV SRNLSVSSRFSLVFDDGDVQMG FWCGCPLCLLVFLLTAGPSAA GLLEFAGGPLQTLFA
15507	45875	A	15597	1	2762	MYGTGYRDVAGKWAIDPDSK REFLDVTQEGIQGCDFSGTCRQ TLSILTQPLRQWGLEGIKKPN WIIEESVSNGGPPLLIPQTAS GVDLQQTPTDLQLRVLTVRK TNKQKGIASSTKRTSTPKPHL YVTIHKDQSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQQ WNKAGRRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIWDYVKRPDLRLIGVPD SDGENGTRLENTLQDI
15508	45876	B	15598	1	1989	
15509	45877	B	15599	1	762	
15510	45878	A	15600	686	850	GQPERKVGLPTKGSPSD*QRISR QKLYKPKEGGQYSTFLKKRIF NPEFHIQPN
15511	45879	A	15601	2	382	
15512	45880	A	15602	1	993	
15513	45881	A	15603	3	460	SPCWGQLLQATQP/ATAFAQKD LLVGAVLFGHNGSLSSRNTLAF SMDVGPSQWMWGLLNGCGAS AHRQCTRCTLQVTIALEGPLAP LKLAWHKKIYIFLGEAAEIRRD QLEAERELFHSRAEQGRLFVGR PGQAAHMLPPGDCVSIWTQH MIT
15514	45882	A	15604	1	130	
15515	45883	B	15605	1	561	

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15516	45884	A	15606	94	420	EKAVGRWIFQSKRYRSPCEKPY SKGLQVQRTVPEGPSKAARAA QAPGPNLLPCLPT/PQTPEFIIEP LANMYSCGNQNTLMEELAEQA QQHDEMLHMHALKEALSIS
15517	45885	B	15607	46	747	
15518	45886	A	15608	186	364	AFAPAPCTLVPGVLRGPPILLRE TGLAH*CPAVISPPKSLPWLPTA YSVESQQVILFGL
15519	45887	A	15609	155	511	GAAVAGTQNLCLGGGGAVGG S*RGALNGEGLLHPGYNAPFQN TAATRDRGIAQTAPAAAFQLFL HQRVRFHC*FLLWREGRGR*AR REPLSRPQPPAGPLGGALPAPPL PDASTLVGVG
15520	45888	A	15610	1352	1684	MSIRSAWCRAEFNSWISLLTFC LVDLSLVFDDGDIQMGFWCGC PFCLLVLLTAGPSAAGLLEFA GGPLQTLFAWASAVVAEEQOI LVSSKCCCLIVPLEVLSQRSTWP
15521	45889	A	15611	98	367	
15522	45890	A	15612	426	738	VCVWGDPPGPAGGHGEAAATL WKEKVDLKERVEKLELQFIHLS GQTDITGRKYISQGA VSETQHW ERRTSSGWP/GPGGDEGEPA AGQVLQVLVDHKEGHGKF
15523	45891	B	15613	86	1411	
15524	45892	A	15614	950	1493	GTVFLWRRRGTIFRVSGFSAL FFPPSLWFYLPFVFDDGDLQME FWYELSFLMLLLFLCACWFSF *QSGPSAAGLLEFAGGPLQTLF AWVSAVAEEQWILVNRKCCC LIVPLEVLSQRSTRPCEVSVHPY VHCCLGIEELNIYCSLHSLGLFE AILLGKA FEELGCCDPSLFATV
15525	45893	A	15615	1	5731	MDSHRPTAWPAAVLGRSPVA AESERYCSRQPPLRRQALLSV LVLASDTRLFPWSSQTFCGILS KPLVLSGPLQTQGETNENGLV GGGEVGMQPLVLFERSLFPGRG CVLERRIVPWMRQESYSSSPI WFVDSDELNLTSVLECLEDDK NNNLLHQQLKWLICGLCRLYN LPKHLDVAMPDQPLPMQSGP SAAGLLEFTGGPLQTLFAWVSA ALAAEKQILVNCKCCCLIVPLE VLSQRSTWQYELKEYW
15526	45894	A	15616	2	521	

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15527	45895	A	15617	1	1261	MSEHNITEECQQENQSIEQWRSI AHSDSIEVSWLHEVIKTYLKAK STKLDLMKKLKLSSQPSRKPK PFIPSQEGTGDNDVIYSTERLSK LLNQKKGSTRLYDKPLSNLLNQ KKVSTRTEGLTVDSRADMRNV TTILLSTESSSTDSSSSMDSSSSM DSSSSIGRVETATCAMIPVQKSK RSGPPQGPSAATGDGAEGRFLP RCSRPAWADRLAWSQPRRHLP GPSAATGDGAEGRFPLCSCCG TDRLAWPQPQGHALLPRCGE CGRARELPGDCCLHAEGGCSSV LEVLARAIRQKKEIEEIQIGKQE VKLSLVADDIIFCLENATDSSRN LLELIKEFSKVSRYKINGHKSVA LPYINSYQAENHIKNSTPFTIAA TNNNNKK\KNLGIYLAKESKDS YNENYKTATERNHRWSQAR
15528	45896	B	15618	60	499	
15529	45897	A	15619	134	1416	RTSICWTMDSSVQNTVLGPTRS SVKGVMEWLQYLQMERR/CTL SISMESMPRVAEDAGDVGAEE PLHLEPPAGPLEVEQQLQAEIK HLRKTLESLAGQLQAQVEANE GSSHLNRQQDERLREWKAELW EEQGETGRSSVQKDRTTISHAL SQNHQLEEQ LAKERLEATSQQ NQQLQSQMMLMALPGEGDELG SKEEEEAPQPMPSILEDLKSREA MVAFLNSALVSAEEEQQAQLH GQLKEQRVCCQH LAHPVALAQ KEPEAAAPTPTTGSDSAVWTV DLQVEKTKFIMFTIKPGEVVNK DMAQSIYRSGKNLDKDMYGH DLEARRTNRPLETTFYFLSYE LDYSRCFIGCLKCLCLPSPSATI GSFLKPSQKQKPVCLLYSLQNH EPIKPLFFINYPDSDSYRHTQVIR ILLSGSIHVQVPATKTPL

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15530	45898	A	15620	1	1665	MGGHVGGRRHMLTPKLIPETL AAGSMKINPEEPNRPPINGAPG GPALPLAAGDSGSEQAGEPALA ASELQGW DSTLGSPGSLRGTGI VATRSRSGFRSLSPASLGRRSR DRKTKELAFAGSGLATRGQRA SSDAAAGPPLSRCSPARTPQLPV RGS LTGPRAPAPPRARVCLLSC SCRQPFPLTGGLNVGRPSGPS WKICPRSLPSASAETGIRRRRAA AHPPLQQPPLCGESLPSVQCSA NADSSIPVPSRWSQDACRNTGA AGPPGYPACVNNRNRTDKNSQ LDETHHMKTKVTD RGGFGAFT MLLRVVD TGHTSCSGSVEWDP RLYGDQADLSRSGHLDRPGAH HDYYTAIKKCEEKSLD TTVK VKAGVNGFGRIEHLVTKPAFNS GKVDIVTINDPFVDLNNMVYM FQYDSTHGKFCGTVKAENRKL VASGNPITVFQ/ERDPSKIKWYI AESTCIFTTMEKAGADLQGGA KRVIISAPSADAPMFVMDVNHE KYDNSLKIVSNASCITNCLAPL ANVIHNF GIVEGPM TTVHAITA TQKIVDGP SGKLA
15531	45899	A	15621	2	1105	GRVGCSTVSRJFSCVASRATSLR TPMGKVKVG VNGFGRIGRLVT RAAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGTVK AENGKLVINGNPITIFQER\YPS KIKWGDAGAEYFVESTGVFTT MEKAGAH\QGGAKRVIISAPS ADAPMFVMGVNHEKYDNSLKI ISN\ASCTTNCLTPLAKVIHDF GIVEGLMTTVHAITATQKTLD GPSGKLWRDGRGAF\QNIPAS TGAAKAVGKVIP*AERGKLTG\ MAFRVPTANVS\VVDLTCRLEK PAKYDDIKK\VKQGVGGPPQG AILGYTEH\QV\VSSDCNSGPPV FPPFDAGAGIALNDHFVKLISW YDNEFGYSNRVVDLMAHMAS
15532	45900	A	15622	121	221	
15533	45901	A	15623	189	538	

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15534	45902	A	15624	3	1015	DRAGPPGAPRLGQQLLCAILL GLAAKKKEINITIHKQLLKKFLN KKPSYGLERQMETTQNLVDSY MAIVNKTVDLMVGVMPKTI MHVMINNTKEFIFSELLSNLYS RGDQKTLMEESAQAQWRDE MLRMYHVLKEALGIIGDINTTTI STPWGPVDNSWLQVQSVLARR R/SPGLAPTAPSLPTPHRLSLGA LGTGSVPTLLHHPGSSSVSSLG LVA/DCFGLPKARGGPGQRLPF PSLPGRLFCDLAVAPPAPKAAP FICDFVYCCDQASEPVGCGGQT APHRLHGSPLGIPQAPPGSIQA WLRAAVFWKGALCPRCGRHIQ EFLHRCCTLVSL
15535	45903	A	15625	547	1242	PKALIKTSNKSSLSYQLTTHSGT MACPWIRHEVLLSRLGFLVLEN TNMDKRPSKLLRWLERQMETT QNLVDSYMAIVNKTVDLMV GVMPKTI MHVMINNTKEFIFSE LLSNLYSRGDQKTLMEESAQA AQWRDEMLRMYHVLKEALGII GNINTTTISTPWGPVDNSCLQV QSVLAGCSFIILVQAVFLLYQA WWLLFWAPQGERWPWTSGLE DTVTREEGSPKGLSISL
15536	45904	A	15626	108	308	AQKHHLT*LSFLPRH*ILT*NLT KIPTSKIKKTPRSRSPRRSTSCFL DNLAPSCGCSGKGSWRIC
15537	45905	A	15627	687	1910	KDHQLRKKLRRRGKQGAFTAA LPPGSPRPLRGGRSGGVGLGV RGQRTQPAPQAVTPSEGPEPLW GPVLGGGGEHRRGTGASAAAG ASMRRLLGAAGGGAGAGPQRG VGARVVVSEEANSPGAAITSNR ETQDANEGLSAPRPECLLHPTC RLLYVPLIVRDWVCHTRSIVLL QVVNVTGIAVGTGLASAYDTL MSQSFGVKNLKRVGIIHQRGVL ILMLCCFPCWADLVNTERILL LKQDPKSPGWTRCFQEWGSYI HLVIPSFMFVCTEQWTFEIGNF LAGLIDVMELGTQGIICELASV AYMNYFRLNPQPPISDFTINLAF LTLTERKILGYIQLRKGPDIVGP YGLLQPFTDAVKFTKEPLWPS TSTITLYIIAPTLALSHVLLALPT RMLAATPRPRGT
15538	45906	A	15628	1	1173	
15539	45907	A	15629	3	1447	



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15540	45908	A	15630	1	215	MDPKQEEIPDSPEKEFRYRIAE WIRIHQPIICCLQETHLTHKDSH KLKV/KGWNKAFHANGHQKSA ARETK
15541	45909	A	15631	1	1524	
15542	45910	A	15632	1	575	MALSERSQPQDHVSHDRIYVK HPEYANLYRQKVDTLPRVSIS IHVGQAGVQIGNARWELCYCLE LAIQPDGQMPSDKTIGGGDDSF NMFFSEIGAGKHVPRAVFVDLE PTVVDRCCLGHWMAAFLGE\EV HTGTYRQLFHPEQLISGKEDAA NNYSRGHYTIGK/EDLVLDRIH KLLTSQCRKPKATMWLSQAT
15543	45911	A	15633	208	465	
15544	45912	A	15634	107	827	EARRPCTLHLRSALHPATMCEL YSKRDTLGLRKKHIGPSCKVFF ASDPIKIVRAQRQYMFDENGEQ YLDGINNVAVHVGHCHEVVKAA ALKQMELLNTNSRFLHDNIVEY AKRLSATLPGETLCLLFYKFRG YWPSSNTPSSRPAAPASPPAAE RAGDFRAGRKPSVPGSRVSQGS PRGPCSRLSLSTFCTRYCPLSAL TSGPGCPYPMCFLLSPRVSRLLY SSHMVAGCRALRRCKNSH
15545	45913	A	15635	3	1218	GGLWEKMAAAA\QSRVVRYLS MSRSAITAIATSVCCHGPPCRQL HHALMPHGKGRSSVSGIVAT VFGATGFLGRYVVNHLGTAW GSQ\VIIPYRV*IKY*QSMHLSFP WG*PGGQLSVFLGNWGTARD* RFLFRRVSYNTGNVGSILFGTR LGETKNF\DFWRDVFKIPQAIA \QLSKGSWEFEKFISCFHIWNGG II*KALS*DI*GNKAVGEKVVRD AFP\EAIIVKPSDIFGREDRFLNS F\ASMHRFG\PIPLG\SLGWKTV KQPVYVVDVSKGIVNAVKDPD ANGKSFAFVGPSRYL\LFHLVK YIFAVAHRLFLPFPLPFAYRW VARVFEISPFEPWITRDKVERM HITDMKLPPLGLDLGIQATP LELKAIEVLRRHRTYRWLSAEI EDVKPAKTVNI

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15546	45914	A	15636	2	799	GLWEKMAAAAQSRVVRVLS\ MSRSAITAIATSVCHGPPCRQL HHALMPHG\KGGRSS\VSGIVAT GFGA\TGFLRRYVVNH\LRMG SQVIIIPYRCDKYDIMHL\RPMD LGQLLFLEWDARDKDSIRRVV QHSNVVINL\IGTRP/WKSKNSD YEDVFVKIPQAIAQLSK\EAG\V EKFIHV\SHLNANIKSSSRYLNR KNRKREKEEMKKDLLSKKEPE PEDLENSQLIHIAKNEKACFEEN TKSVAEQPFDEEIVDATHQLTS YLGRSQE
15547	45915	A	15637	560	1394	RKSSSVHNAASGLLGSRAPGAH RHLGRCRCRHLVSPSPAMAE DLAATSYTEDDFYCPVCQEV KTPVRTTACQHVFCRKCFLTA MRESGAHCPLCRGNVTRRERA CPERALDLENIMR\KFSGSCRCC AK\QIKFYRMRHHYK\SCCKYQ DEYGVSSIIPNFQISQDSVGNRIE NNTGIKQIPGAPAFGDGRVGC QRNAKTELLAAAGESPCTMSL GSGPNLGPSPRSKSSSVTSPQPC FTEHPRERFVSFPVHYVLEGS MSFLLWSLKTDRIFGH
15548	45916	A	15638	1	1026	MKVVCKEVKFEKQCPEAVLLH WEQTDDDENKRCDLREPRKPE THTKGPGLLVPTTQPRNEGQS GADGKHARCSKTSCCLSGKEPS FIITEHCPLVPVQNTTIKPDGIR ILQTLDSRETFTMSTALDVLQM KEEDVLKFLAAGTHLGGTDLD FRMEQHICKRKSGGIYIINLKRS WEKLLLVAPAIVAIENPADVSV ISSSSTGQRAMLKCAAATGATP IAGHFTPGTFTNQIQTFFPNPRV LVVTD CRTGHQPLAEASYV/NN LPTIALCHTDSPLHHVDIAIPCN R/KAHSV DLMWMLAREILPM\R GTIARKHWWE\DP EEIEKEEQ AADKALTKEEFQGE
15549	45917	A	15639	20	441	TAEIAIPCNNGAHSVG*MWR MLAREDLRMRTGISGEHPWEV MPDLYFYRDTEEIEKEEQAAAD KAVTKEEFQGEWTAPAPEFTAT QPEAADWSEGVQVPSVPIQQFP TEDWSAQPATDWSAAPTAAQ TEWVGATTDWS
15550	45918	B	15640	88	531	
15551	45919	A	15641	1	1302	

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15552	45920	A	15642	150	957	KAGASCCGSANPYVSVGKSCV LLAMAQLQTRFYTDNKKYAVD DVPLSIPAASEIADLSNIINKLLK DKNEFHKKHVEFDFLIKGQFLRM PLDRHMEMENISSEEVVEIEYV EKYTAPQARSNAWFHDDWISSI KRGRG\RILTGSYDKTSRIWSLE GKSIMTIVGHTDVVKDVAWVK KDSLSCLLLSASMDQTILLWEW NVERNKVKALHCCKGHAGSV NSIAVDGSGTKYFGLRIEKP VSLVEEINSLSYRWTADNYKV GSGGKEED
15553	45921	A	15643	3	393	VFCCPHCSLTFSKSFSSFSRLVR HQQTHWKQKSYLCPICDLSFGE KEGLMD/HLEGL* RQGPQSSH HKCRVILGQWLGFSDVPTMA GEEWKHGGDQSPPRIHTPRRRG LREKACKGDKTKEAVSILKHK
15554	45922	A	15644	335	537	VYFKQVTLDSRCRL* ERQVKST SSWNILSSTWRLPFCPTSVVLR LTWICLRTISTSSISWFPADSS
15555	45923	A	15645	153	828	

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15556	45924	A	15646	1	2002	MLESAGNQDIEDVDIVLRQIQV KNRSTTEVGQNGNLQVEVSYT QAHIA PRPLASQGTWPHFVSSA PQPCFQVQNH SKYQNL YYSGFI RETEPISKGDVGEWLSAGKGES SAMFASEQEISKDEQGT PVLGS FYWEVDS PRKESSQAWAPGQE WIKLERDTTEEKMF EQLKPIEP VQKTL PWVGEVAATLQEAMK RDCWREARVKKKPVTFEDVAV NFTQEEWDCLDASQ RVL YQDV MSETFKNLTSVEGKKKELREQ HPSLRDEGTSDDK VFLACRGA GQCPLSAPAGTMDRTRVLQAS QAGPP/FFATTVGKCF SRRSYL YSHQFVHNPKLTNSCSQCGKLF RSPKSLSYHRRMHLGERPFCCT LCDKTYCDASGLSRHRRVHLG YRPHSCSVCGKSFRDQSELKRH QKIHQNQEPVDGNQECTLRIPG TQAEFQTP IARSQRSIQGLLDVN HAPVARSQEP IFRTEGPMAQNQ ASVLKNQAPVTRTQAPITGTL C QDARSNSHPVKPSRLNVFCCPH CSLTFSKKS YLSRHQKAHLTEP PNYCFHC SKSFSSFSRLVRHQQ THWKQKSYLC PICDLSFGEKEG LMDHWRGYKGKDL CQSSHHK CRVILGQWLGFSDVPTMAGE EWKHGGDQSPPRIHTPRRRGLR EKACKGDKTKEA VSILKHK
15557	45925	A	15647	1	1048	MPSLAELFEGSSKAFGAAASQL NFPVASGEMLKFKYGLRNPLH AVAAEPIASRTSRLNFFQ GKPP FMTQQQMSPLSREGILDALFVL FEESQPALMKIKHVS NFVRKY SDTIAELQELQPSAKDFEVRSLV GCGHFAEVQVVREKATGDIYA MKVMKKKALLAQEQVSFFEEE RNILSRSTSPWIPQLQYAFQDK NHLYLVMEYQPGGDL LSLNR YEDQLDENLIQFYLAELILAVH SVHLMGYVHRDIK PENILVDRT GHIKLVDFGSA AKMNSNKMVN AKLPITPDYMAPEVLTVMNG DGKGT YGLDCD WWSVGVIAY EMIYGRSPFAEGTSARTFNIM

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15558	45926	A	15648	101	220	KRQQAFLGLDLHQWFARGSQG FRLQTEGCIIGFPTFEV*RHSGFL SCQSSCTGSFSSVWADVPLMFE GAAQPV*PVPSRGSADFRPLSIC *RSSRILLVKRCENSGVR
15559	45927	A	15649	597	808	ITMKSQRQIIKKA VTTKEMKSV CRRD/TPAFMFIAALFKIAKIRIQ RLCLSTDEWIKM WYIHTMEY YSTLK
15560	45928	B	15650	161	3156	
15561	45929	A	15651	14	270	
15562	45930	B	15652	787	1821	
15563	45931	A	15653	1	2412	MAKSKGCSAATLASTHQILVTP WSCDNQKCLQTLPNVPGGTKL LLCEDHWFRNDSCNQAIPTIAT LLSFPSLQASLWTTFLSPLNH HPVNPDSHLEQPPGQSPRLNFE AGDPERAPHALGCKRSRTRATS DRQPMASRDPGWGKASVGKA CALGSAVLPAGNDCTTDNLGL GSAGFEDLRLRLGQGPPRRQGA LQAAPRKASSCAAGQRLAPDSS FSRKRPSRQRLGCETAAVADT AEAKSSEAPAFGWSTMDEAGS SASGGGFRRALDEPPNSRIFLVI SKYTPESVLRERFSPFGDIQDIW VVRDKHTKESKGIAFVKFARSS QACRAMEEMHGQCLGPNDTKP IKVRVPGSGCPRGKEWASWTS HLLLCRGEGGVEHPFAADQT APGLGTGAALRRGSPPTKLRRV AGKGTGCGVFAPRERTRQPRPP GDRTAVAGLP\SPSPSLIHQLLSS LPNSS*PTLSTFLTFLSQMPRFP YIKNGKTL/PFPQVFIAQSRSSGS HRDVEDEELTRIFVMIPKSYTEE DLREKFKVYGDIEYCSIIKNKVT GESKGLGYVRYLKPSQAAQAIE NCDRSFRAILAEPKNKASESSE QDYYSNMREQEALGHEPRVNMF PFGHGVVQYFNVASAIYAKYK LHGFQYPPGNRIGVSFIDDGSN ATEKMATQMVAQAQLASMVWN NPSQQQFMQFGGSSGSQLPQIQ

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15564	45932	A	15654	375	2059	DSSVWQTPQKQRAVRPLHSGG APWTKLAALRATRGRPGVDS LDEPPNSRIFLVISKYTPESVLRE RFSPFGDIQDIWVVRDKHTKES KGIAFVKFARSSQACRAMEEM HGQCLGPNDTKPIKVRVPGSGC PRGKEWASWTSLLHLLCRGEG GVEHPFPAADQTAPGLGTGAA LRRGSPPTKLRRVAGKGTGCG VFAPRERTRQPRPPGDRTA VAG LPLSLALTNP PALEFTAKLVLA YFEYFSDLPLSDAQISIYKKRKN STFPQVFIAQSRSSGSHRDVEDE ELTRIFVMIPKSYTEEDLREKFK VYGDIEYCSIIKNKVTGESKGL GYVRYLKPSQAAQAIENCDRSF RAILAEPKNKASESSEQDYYSN MRQEALGHEPRVNMFPFGHGV VQYFNVASAIYAKYKLHGFQY PPGNRIGVSFIDDGSNATDLLIK MATQMVAQAQ/RLHQWCGITQV SNNL/WQFGGSSGSQLPQIQTD VVLPSCKKKAPAETPVKERLFI VFNPPLPLDVLLEDIFCRFGNLI EVYLVSGKNVGYAKYADRISA NDAIATLHWKDSEWGET
15565	45933	A	15655	257	412	
15566	45934	A	15656	3	866	HAASPCCCYEKQSPLOKHLRV CSLRTWSLAARVAEGTAETVD PSAAPKTSVWSSRVCWGRLLA TISPSVNETDTCGMEDRRLVVC RPWRAQCHMKA WGWRHPPEG GTHSGAPSAVLQALAVAIQLGG HLADPLLQVDPLSSCGAVSLDI LIYLVFYRTASVPETYIVKTLF KKLESQSLIQSNVLTRSNSMKA ERGEEAAKEKSEASRGWFMRF KERSCLHNIKMQGEAASADVE AAASYPKDLAKITDEHGYTKQ Q\FDVYKTAFCWRVMLKKYVK LLFVLCPLP

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15567	45935	A	15657	333	1034	RLSTTVMRGAFVF\MHKMPRL WLDYCCQFLMDQGRVTHTRRT FDRALRALPITQHSRIWPLYLRF LRSHPLPETA VRGYRRFLKLSP ESAEYIEYLKSSDRLDEAAQR LATVVNDERFVSKAGKSNYQL WHELCDLISQNPDKVQSLNVD AIIRGGLTRFTDQLGKLWCSLA DYYIRSGHFEKIRKAPVNGGPT WMVGQNSVPRFQTRRLTPLKR KGPLVTDFREKQPTPLAQE
15568	45936	A	15658	172	346	ARPCRWCPS*TSASAPGPGLR PCPP\GGDRTPASPPLHNQAAA APPGPGTWRGAAAS
15569	45937	A	15659	293	482	
15570	45938	A	15660	468	791	LAKCGCLEARGRARQTSGRPRP TDGGP*SPCWETGKGHPVLGR RGS/PGKQGL*SLPQSCQGQWR CAASRLSSKNSWACMG SREA VSQETGTSSSSLGLMRPSDKKP
15571	45939	A	15661	366	609	
15572	45940	B	15662	321	739	
15573	45941	A	15663	1	1815	
15574	45942	A	15664	1	1911	
15575	45943	A	15665	437	1125	PVSCSGHSRWAAAAISIALSMIE TVNMVFTFYSRHHGTISTRVL/I GKRPERQDGDQTVNLGTLEET ASPSPVTTSPQPMLPSAFPPL SEEINPALPEATVMASPEAVAR QDNVDSAQEPPTPLCASRPTT RQKSWWGARGEVESVTHEEM HYTGKELLEFSNLYKEKSGEQA WEWILRVWDNGGRNIQLDHPE FVDLGPLSRNSAFNVA VRGVK KGSKSLFAWLGEI
15576	45944	C	15666	49	186	
15577	45945	A	15667	80	877	GAERLPEGPGKRMVFRRFVE\V GRVAYVSFGPHAGKI/VSAMVD VFDQNKGFWSNGPCTQVR\RQ AMPFK\CMQLT\DFILKFP HSAH QKYVRQSLGRREDINTKLGQP TRWGQGRFESQEEKEKPRLTDF *SVF*S**RAKEN*RDRINPRNE V*EAFKRAAFPGKASSQKKAPG Y*GVLLAAAAAAAAAAAAAAAA AAAAAAK\VPAKKIT\AASKK APAQKVPAQK\ATGQK\AAPAP KAQNGSKSSKPQKAPAPKASG KESISGNHKK
15578	45946	A	15668	253	1218	
15579	45947	A	15669	1	1819	

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15580	45948	A	15670	1	2422	MCPILREHRGSTEGRKRRQKRLP LELTLKDEEVL AHRQEIEVAKA SPSKGNIIHFGYKGV EYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKAEK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPPLQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWSRSPYFFSPKPVPP QLLGGQPAAHSRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSSHQQQ ESPLPTITHCAGCTTAWSPCSFN SPDMETPLQFQRGFFPEQPPPPP RSSHLHCQQQQQSQDKPCPPFA PLPHPHHHPHLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLR TSSPGGAFRTTSSPLSG SSCCCCSSRRGSQLNVSELT SSHASALRQYQAQSSAQSSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHHPAHHQH HQPQARRESNPFT EIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQLQPPASVGGGGGASSP SAAAAAAAAAVSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRKRLS
15581	45949	A	15671	1	246	SEPPHRGPTGALPSGAVRRGPL SSRPQIGRSTDLSLHCVP GKATD AQRQPVKAAGSGAVPCKATG WSCP KL*EPISCINVTIC
15582	45950	B	15672	43	741	
15583	45951	A	15673	687	1012	FHTSRPFWNISELSRFCIQKYKK PWHVSDFYRYQFFICQGTACC PASLRM*HCPN*ILQGTSSQNCC SCSGKSCSPMQQRHRSTVCSGS GTFCVGSCESEFEGTYFSR



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15584	45952	A	15674	1	1640	MSCDTNGEVEGGRVDSKTRGR QEVERNTETHLGSGLNCDIPLIF LTYEWRGILEYKIFSVKTGEVL GKPGQLGHPTGQTTFETGTQV TSMQEMGSYSFGQPHPVALQG TAPLPAAFTGWRLASVAFPGTQ CKLSVDLPIWGLED SGPLLTAP LGSAPVGPLCGGSDPTFPFCTA LTGPSAASLLEFARGPLQTLFA WVSAEVS AEQFFVNHECCCLI VPLEVLSQRSTRPCEVSVC PYW GVPPRDRSNQCPSGFTLDSVGP FCADEDECAAGNPCSHSCHNA MGTYYCSCP KGLTIAADGRTC QDIDECALGRHTCHAGQDCDN TIGSYRCVVRCGSGFRRTSDGL SCQDINECQESSPCHQRCFNAIG SFHCGCEPGYQLKGRKCMDVN ECRQNVCRPDQHCKNTRGGYK CIDLCPNGMTKAENGTCIGECL AVSVTEIS/CAVNKSNIDECKDG THQCRYNQICENTRGSYRCVCP RGYRSQGVGRPCMDIDECENT DACQHECKNTFGSYQCICPPGY QLTHNGKTCQGKLPFKQIESGG
15585	45953	A	15675	1	669	MGFCHDGRSIAFRGERGNDESA IEMIKVSHLKQYLAVVFRDKPL ELWDVRTCTLLREMSKNFPTIT ALILTGRCASLKWRSKPKEEF MGYRQWNPTQESSKGD FEIQL EGGPSMATVYRTEMQPVQIGIE LLPSPLSFHPSPN SGIPNDPSWL LSTATLHPPTGVERSSSPATEQR WTENDFDELREEGFRRSNYSEL REDTQTKGKEVENFEKNLEECI
15586	45954	A	15676	1	323	MAHESAEDLFHFN VGGWHFSV PRSKLSQFPD SLLWKEASALTS\ SESQRLFIDRDGSTFRHVHYL YTSKLSFSSCAELNLLYEALG LQLMPLLQVRCSCFLGVVDQ
15587	45955	B	15677	1	1443	

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15588	45956	A	15678	1	708	EV TASPQGVSAVSKGDQKWT ALGKGLTFIKAVGSIQRNRWRG WQLKALYQCTTIAGATGVFLR VYRALDVLQMEEDVLKFLAA GIHLGGTNLDFQMKQYIYKKK CDGVYIINLKRTWEKLLLAACA IVAIENPADVRVISSRNTGQRAI LKFAAATGATPIAGRFTPGIFTN QIQATFQEPQHLFFTDSDRADH/S PLTEASYVNLHTIAPRNTDSPLC YVDIAIPCKKGAHSVGL
15589	45957	A	15679	78	757	REIFINVRSLLMACFVKEEDVL KFLAAGTHLGGTNLDFQMEQY IYKRKSDGIYIINLKRTWEKLLL AARAIVAIENPADVSVISSRNTG QRAVLKFAAATGATPIAGRFTPG GTFTNQIQAAAFREPRLLVVTDP RADHQPLTEASYVNLPTIALCN TDSPLRYVDIAIPCNNKGAHSV GLMWWMLAREVLRMRGTISR EHPWEVMPDLYFYRDPREEIEKE EQAAAE
15590	45958	B	15680	1	1767	
15591	45959	A	15681	98	412	
15592	45960	A	15682	521	600	PSPGES/PPLQPDPPVPPWPPPEE EPRA
15593	45961	A	15683	117	285	
15594	45962	C	15684	12	468	
15595	45963	B	15685	1	840	
15596	45964	A	15686	1	1173	
15597	45965	A	15687	1	2931	MDLFMNVAMLRARYLWSEA VSGFGAQDPKSLALRTHCQTSG WSLTEQDPYNNVIRTIEALAA TLGGTQSLHTNVFDEALGLPTD FSARIARNTQIIQEESELCRTVD PLAGSYIESLTDQIVKQARAI QQIDEAGGMAKAI EAGLPKRMI EEASAREQSLIDQGKRIVGVN KYKLDHEDETVDLEIDNVMVR NEQIASLERIRATRDDAASDTR EIVDLTNGNIKTFNGSIIYARFD TGRHLFSGGNT
15598	45966	C	15688	1	1779	
15599	45967	B	15689	22	1531	
15600	45968	A	15690	98	412	
15601	45969	A	15691	521	600	PSPGES/PPLQPDPPVPPWPPPEE EPRA
15602	45970	C	15692	175	454	
15603	45971	A	15693	332	494	RKEMASGFSKGPTLGCCRRAL PDGDTQLQLLRGNHDSVLGA KRRDKGEAGPD

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15604	45972	A	15694	2	1276	HTLHSLVTILGTWALHSGPALL LPRPGSGLDFLLSPVLPSPQPPG LPTPTPFTNAVQLLLTLKLVSLA SEVQDLHLAQRKEMASGFSGK PTLGLL/RRRALPDGDTQLQLLL RGNHDRPVLPPLPLPGLAGAAL PRGSA\SLRPLLRRAPLFLGL LFLSSHLFPLEAVREDAFYARP LPARLFYMIPVFFAFMRMFYVA WIAAECGCIAAGFGAYPVA ARA\GGGPTLQCPPSSPEKAAS LEYDYETIRNIDCYSTDFCVRV RDGMRYWNMTVQWWLAQYI YKSAPARSYVLRTAWTMLLSA YWHGLHPGYLSFLTIPCLAA EGRLESALRGRLSPGGQKAWD WVHWFLKMRAYDYMCMGFV LLSLADTLRYWASIYFCIHFLAL AALGLGLALGGGSPSRKAAS QPTSLAPEKLREE
15605	45973	A	15695	134	601	RDGEQPLWAWGSPCSPVAPTL CILWAPSSGPGSPFRSPAPATP WLWPGLSPISCDSEPSASWACP LPCPSPKPDRWLLTLKLVSLAS EVQDLHLAQRKEMASGFSGKGP TLGLL/RRRALPDGDTQLQLLL RGNHDSVLGAKRRDKGGQTTII FVQV
15606	45974	B	15696	76	504	
15607	45975	A	15697	11	706	HITRGRSCTRWTSAMAKGAPR VILLCLFGAALCLTGSRALQCY SFEHTYFGPFDLRAMKLPSISCP HERFEAILSLDTGYRAPVTLAR KGCWTGPPAGQDAIEPGRAAA RLLG\VRGCTTDKCNAHLMTH DALPNLSQAPDPPTLSGAECYA CIGVHQDDCAIGRSRRVQCHQD QTACFQNGRMTVGKGLEGW KGLGKGYGGRAAMRVVIPDRP NRETWPCSEVGMTLV

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15608	45976	A	15698	2	1642	DEGRAKGHHTWQQTRENESQA KGETPYKTIRFRETYHHKNSMG ETTPMIQLSPTGSLPQHVGIMG ATIQDKIWVRTGLPGFPGTPGL PVSSGFPSPGFPGLQGPPVSYG PTGIPGPIGPPGPPGLMVSSGPP GLPGPKVILGLNFQGPKEKVS KGLQGPPGPPGQISEQKRPIDVE FQKGDQVSNGDRGPPGPPGIRG PPVSTGGEKGEKGEQGEPPGKR VSEGKDGENGQPGIPVSSGDPG YPGEPGRDG/EKGKNVMGPPGP PGFPGERGQKGDGPPGISIPGP PGLDGQPAPGLPGPPGPAGPH IPPSKLGDTFCNCIGTGISGPPGQ PGLPGLPGPPGKLAPGAPGFP GSKGEPGDILTFPGMKGDKGEL GSPGAPGLPGLPTGQDGLPG LPGPKGEPVSCTFKGERGPPGN PGLPGLPGNIGPMGPPGFGPPGP VGEKGIQGVAGNPGQPGIPGKF GDPGQTITQPGKPLPGNPGRD GDVGLPGM*GLPGQPLPGIPG SKGEPGIPGIGLPGPPGPKGMLL
15609	45977	A	15699	246	433	GLFPLEPGANGI*GC/SGRIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS
15610	45978	A	15700	179	5262	RSCGSRRRMKLRGVSLAAGLFL LALSLWGQPAEAAAACYGCSPG SKCDCSGIKGEKGERGFPGLEG HPGLPGFPGPEGPPGPRGQKGD DGIPGPPGPKGIRGPPGLPGFPG TPGLPGMPGHGAPGPQGIPGC NGTKGERGFPGSPGFPLQGPP GPPGIPGMKGEPGSIIMSSLPGP KGNPGYPGPPGIQGLPGPTGIPG PIGPPGPPGLMGPPGPPGLPGPK GNMGLNFQGPKEKGEQGLQG PPGPPGQISEQ
15611	45979	A	15701	155	623	FNYLPPGPSHN/DVGIMGATIQD KIWGPPLPGFPGTPGLPGERG FPGSPGFPLQGPPGLPGPTGIP GPIGPPGPPGLMGPPGPPGLPGP KGNMGLNFQGPKEKGEQGLQ GPPGPPGQISEQKRPIDVEFQKG DQVSNGDRGPPGPPGIRGPPVS
15612	45980	A	15702	581	687	KKGAGQVV/DDVQLAQLAQA NEIVLSWNCWMLCKQY
15613	45981	A	15703	7	123	

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15614	45982	A	15704	1	374	RFRKAQCTIVERLTNSMMMHHG RNNGKKLMTVRIVKHAFETIHL LTGENPLQVLVNAIIN/DVSPLR RVNHAIWLLCTGAREAAFRNIK TIAECLADELINAACKGSSNSYAI KNKDELERVAKSNR
15615	45983	A	15705	2	892	QAFLPITPDQLSNKYKVFACKTA LWQNDDVHSQHKGEYRNAAG EPKYRNSVTTHSEGKWQSEKG KDLGVGYWSMACYKLGHIAG NEQQKHICGGIAKKWKQPKCP PTGKWPAVVKPATESEGGGAK KEEKAHLPRVVEKELHESSRHI RHSIESVLLQFTQKDYTAVKE KYAKYLPHTSAERYAAKFRKA QCPIVECLTYSMMTHGRNNRK KLMIMRIVKHAFETIQLLTGDNP LQVLVNAIINSGPREDSTLTGRA RIVRRQAVAVSPLSRVNQAIWP QCTGALEVAEFRNIKTIA
15616	45984	A	15706	1	536	
15617	45985	A	15707	8	437	
15618	45986	B	15708	255	1058	
15619	45987	A	15709	609	1489	LPLSLPRAARPAVAPHLPPREP PALPLPPPQPPRPPSLPGSAQGC NS*RTGTAAAGAGPFAPASMSL RVQTPCWPRGAREPPGSCAS WLFCVWQMVRAHSGCPLAPP PAAAAWVAAQLQP*DGHEGPG G*ET/S*VLRLRPTPTPLPTWCC TVRPRRPVLPFCLIMRRRTAGPP CAPIAAAPTTPSSLRRGKVPTGR PPVL*G*AAVMLTMAVTITRTV TTSCNAAAVMPPKGTGTAHRAP LTPGTV*RDLCVKPTAQMPPS APPWTAPPRVAVAPVIVLPAIS NLGAFA
15620	45988	A	15710	173	530	GRERGDKGGAVQTLQDLVNV HLGLTYPPrPCGHSPPSWASPQ APLQPPLRGEPGHGWGS/PSGL GQKSEGLGPAHLPAARPAV APHLPPREP GPALPLPPPQPPRPP SLPGSAQGCNS
15621	45989	A	15711	1	227	
15622	45990	A	15712	238	498	
15623	45991	B	15713	1	1017	
15624	45992	B	15714	590	649	

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15625	45993	A	15715	3	843	AVFLSTSNEAVYKIFDDSPCPFT AKTCNPETFPSSNESRQCPNAR CQFAFYGGESGYHRALLGLQIF NAFMFFWLANFVLALGQVTLA GAFASYWALRKPDLPAPPLF SAFGRALRYHTGSLAFGALILAI VQIRVILEYLDQRLKAAENKFS Y\CLMTCLKCCFWCLEKFIKFL NRNAYIMIAIYGTFNCTSAR\NA CFLLMRNIRVDVLDKITDFLFL *GKLLIVGIVGILAFFFFTHRIRI VQDTSPLNYYWVPILTVIVGS YLIAHGFFQRY
15626	45994	A	15716	1	449	FRGMGDERPHYYGKHGTPQKY DPTFKGPIYNRGCTDIICCVLL LAIVGYVAVGIIAWTHGDPRKV IYPTDSRGEFCGQKGTKNENKP YLFYFNIVKASPLVLAGI\QCP TPQICVEKCPDRYLTYLNARSS RDFEYYKQFCVPGV/PRTIKKA NGVLEAGNSPCAYLKITPSLGT DY/PWFLLEFQCPTPQICVEKCP DRYLTYLNARSSRDFFEYYKQFC VPGVQEQ
15627	45995	A	15717	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPMQGMHTQEKEQVK TLNKSASFVDKVLFLFQQNKM LETNWSLLQQQKPAQSNMDN MFESYINNLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLIKK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEEIPELQSQILDTS VVLSDMNSRSLDMDSIIEIKY EELQTLAGKHWDDRRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQREGELAIKDA KTKLSELEAAQQRQAKQDMAHG

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15645	46013	A	15735	1	1698	MELKAKAQELREECRLRSRC NQLEESVSVMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLTGVHESDGENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLSAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKKAGV AILVSDKTDFKPTKILKDEGH YIIVKGLIQEELTILNTYAPSTG APRFIKQVRSDLQRDLDSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTFFSAPHHTYSKIDHIVGS KALLSKCKRTEIITNYLSDHSAI KLELRIKKLTQNHSTTWKLNLL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVVCTG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEIETQKTL/QKINESRS WFFERINKIDRPL
15646	46014	A	15736	1043	1536	TSTELSTPNQQNIHFFQHHTTSI PKLTTYLEVKLSS*KKH*TWKG TTGTSCC/INHAKIVTHRLKIKG WRKIYQANGKQKKAGVANLV SDKTDFKPTKIKRDKEGHYIMV KGSIQEELTTLNIYAPNTGAPR FIKQVLSDLQRDLDSHTLIMGD FNTPLLTLDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHIYSKTDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTKNRSTTWKLNLLLN DYWVHNEMKAEIKMFFETNE NKDTTYQNLWDTFKAMCRGK FIAVNAHKRKQERSKIDTLTSQ LKELEKQEQTHSKASRRQEITKI
15647	46015	A	15737	1208	1387	KPWQKNYVTHAQASVADLIK WKKGYQ*LKIK*MK*SKKRSLE KKE*KETNKASKKYGTI
15648	46016	A	15738	308	487	KPWHKNYIMHAQASVANLINW KKGYQ*LKIK*VK*SEKRSLEK KE*KEMNKASKKYGTM
15649	46017	A	15739	220	1101	
15650	46018	A	15740	1	1534	
15651	46019	B	15741	365	3904	



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15652	46020	A	15742	79	506	EPSQRHSQDLQGWSQEHQVCL HRVGWGHCA TCILPAATASHE GPEAW/TARLLVPQTAVGICSA FSGLPSTHEPTGMHFLPSEAHE KPRTQPDQKRGRDDLPCPTSTC LHTSLFLDTGQEFGTCRMAGLK EHVAGDNRERRO
15653	46021	A	15743	2	71	ELKF**FPILSPSRKTSPLRQGS
15654	46022	A	15744	1	627	MKAEIKMFFETNENKDTTYQN LWNTFKAVRRGKFIALNAHKR KQERSKIDTLTSQLKELEKQEQ THSQASRRLNQEEVESLNRPI T GSEIEAIINSLPTKKRPGPDGFTA EFYQRYKEELPK/YLLKQLQQS LRIPNQCAKITSIPKHQ*QTNRE PNHE*TPIHNCFKDNKIPRNPTY KGREGPLQGELRTIAQRNKRGH KQMEEHSMML
15655	46023	A	15746	1	3828	MQLPVQTIAADGYVIKLQKRTT EDGHQSPERHQFPHLSSYSEQE TTRVPFAKAVASGFPGDTTLVF CASPQSPQVHLPTQAVADIFSE FHEHYARISTAPSVTLKANMM GSEFPTARLSNSKYPETLEVGES AQPVPMTWKTVAQDRKDG V SPPLLEKQSITKSISNKPVELSSK VVEVDASKADHMKKMASMGL VHSMAGSGLVLSRSEILKEISSL RNGCAIYRSEFISTDPSSWVPR PRTNEENNGES

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15656	46024	A	15747	1	1639	NCLSDHSAIKLELRIKKLTQNCSTTWKLNLLNDYWVHNEMKAEIKIFFETNENKDTTYQNLWDTFKAVCRGKFTALNAHKRKQERSKIDTLTSQLEKEQEQTHSKASRRQEITKIRAELEKETQKT LQNINESRSLFFEKINKIDRPLARLIKKKREKDQIEAIKNDKGDITDPTETIQTIREY\YKHL\YANKLEY\LEEM\DKF\LDYTLPLRLTQEEVESLNRPTTGSEIEAIINSLPTKK\SPGPDGFTAIFYQRYKEELVPFLLKLFQSIEKEGILPNSFYEASIIIPKPGRDTTKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQVGFIPGMQGWFNIRKSNVIQHINRAKDKNHMIISIDAGKAFDKIQQSFMLKALNKLDIDGTAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDINKWKNIPCSWVGRINI
15657	46025	B	15748	1	1563	
15658	46026	A	15749	1	4332	

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15659	46027	A	15750	1	2319	MRIDGAQELTLALPFASGVACR DVKPGPRRRPLRYRCFQKPSNR LGSASLGAGFWAGRDAKSGH DDDPGALFSVTMDRDLEQAL DRAENIIIEIAQQRPPRRRYSPRA GKTLQEKLYDIYVEECGKEPED PQELRSNVNLEKLVRRESLPC LLVNLYPGNQGYSVMLQREDG SFAETIRLPYEERALLDYLDAEE LPPALGDVLDKASVNIFHSGCV IVEVRDYRQSSNMQPPGYQSRH ILLRPTMQTLAPEVKTMTTRDGE KWSQEDKFPLESQILILATAEPL CLDPSVAVACTANRLLYNKQK MNTDPMEQCLQRYSWPSVKPQ QEQSDCPPPELRVSTSGQKEE RKVGQPCELNITKAGSCVDTW KGRPCDLAVPSEVDVEKLAKG YQSVTAADPQLPVWPAQEVED PFRHAW EAGCQAWDTKPNIMQ SFNDPLL CGKIRPRKKARQKSQ KSPWQFPDDHSAWLRPGSETD AGRAVSQAQESVQSKVKGPGK MSHSSSGPASVSQLSSWKTPEQ PDPVWVQSSVSGKGEKHPPPT QLPSSSGKISSGNSFPPQQAGSP LKRPFPAAPAVAAAAAPAPAPA PAAAPALAAAAVAAAAGGAAP SHSQKPSVPLIKASRRRPAAGRP TRFVKIAPAIQVRTGSTGL/IGH QRGGPSPGSPGISGSLQSSGGP LPDARPGSSAGCPAPLCLG\QQP

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15660	46028	A	15751	409	1874	YDSYIVVIDDADITRGDDAVPR DHHSSTSMVVFRRHRLDVIVVD GDDQHRRMVGRRCRSWFRR GSLDVDQVIGDTAAGRLNVMG DITRDARRDKVKNERYGVAPS VAFGLGTANRLYLNYLHVTHQ NTPDGGIPTIGLPGYSAPSAGTA ALNHSGKVDTHNFYGTDSYD DSTTDTATMRFEHDINDNTTIR NTTRWSR/S/WTWSRTANTKDV SNKILTNTLTSTFYTGSIHGD VSTGVEFTRETQTNYGVPVTL PAVNIYHPDSSIHPGGLTRNGA NANGQTDTFAIYAFDTLQITRD FELNGGIRLDNYHTEYDSATAC GGSGRGAITCPTGVAKGSPVTT VDTAKSGNLMNWKAGALYHL TENGNVYINYAVSQPPGGNN FALAQSGSGNSANRTDFNPQK ANTSEIGTKWQVRGSSRVNVM HEVNTPHQCVRFRPARSAPGCC QSPCHRSGKHMQYGLSKCQPG QYNSVKSGERVNGVTFQ
15661	46029	A	15752	421	441	P*ARMPSPLGPPCLPVMDETT LEEPETARLRFRCYQEVAGP REALARLRELCCQWLQPEAHS KEQMLEMLVLEQFLGTLPTIEH AWVRGQRPGPSPEEAAALIEGLQ HDPGQLLG
15662	46030	A	15753	1	346	PAFGGSAPSERLELHVDGPPPRP QAPGD/CGVGRSWRAEM/HDR ALRGTNPRRHLRSCCARARRRP *RRSAPPGPRANPS*SSWGPSTP GNYRCRYRSWVPHTFKSELND PVELLVA

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15663	46031	A	15754	1	2091	MKPGLRRRRGRGLGCGLGPQL RATWSGAVLAGRDAVLRCEGP IPDVTPELLREGETKAVKTVRT PGAGAKLELIFVGPQHAGNYRC RYRSLVAHTFESELSDPVELLV AVAATLNIHLRLVHMLHIPAAG EGSFREGTHFLKPSPVKMPLVF RVGRRRVLNQGPQGVPIPIPRSC EHLNWQKGLCGVTKCAAPLLR GPPCPAVLRKEIPFVSLKPGLMS SKASEAEPLGPRLGSHQSTAAA LGPRYNGSADAI RPHTAWAVIQ TTISRFTWSLTQVNVPSRTVSLA VRRDRYMTSRTTTNPEEGCRG TFWARRNGCSPSACAVAEAL EACLADVRYPVVALSCGRLQK RRDFRETNAAMSNKEKSLASA RFFVEVQVTLGALCTVQATGQ SMLVFSTTQMSSYSEKFLTSKH ASLSPRLQLADRWRDQGMKW QSPQWGELRPAASHTAEQEPGL AASKAFRDLQNLNSAFLSLTS LSAGHCISAIVVMMSKKEITP QGQLAAASFGELOPVALKCPW LKSQHVESWLARPEAHSKEQML EMLVLEQFLGTLPEIQAWVRG QRPGSPEEAAALVEGLQHDPG QLLGWITAHVLKQEVLPAAQK TEEPLGSPHPSGTVESPGEGPQD TRIEGSVQLSCSVKEEPNVDGQ EVAPSSPPLAAQSPEGNHGHQE PASTSFHPRIQVSSPKWEV
15664	46032	A	15755	1	208	
15665	46033	A	15756	3	373	EVAQMPRVSTPATLPSLPQPAL MAPWTVPYDQLMEEKARAR YAGTIQKWTAALQPLSRTSLK DSGEGTSKWGRSVDTTQPLSPA IPVIFQ*AHEQSGHSGMDGGYA WALQHGLALTNTDLA
15666	46034	A	15757	3	266	
15667	46035	A	15758	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGLLDGLHAVAIAIQG ITKIETTPNHQRAHWTLLTQ QAHLPSPPLHFNLPPLCLMHC PTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGLIVHEILEE VLQAEGDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLPIDGP KHHYGPPVKVGAYGAQLL
15668	46036	A	15759	1	1566	

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15669	46037	A	15760	1	981	MVAIAKVLIA YKEDSDSHNQPN TRMTVSKGPVSA VEGGRRGQD SDDCVEENDAVRTWPPSRILRT ESHPSPHTC SWRRHLLSSCPYT GMSFPISSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDG SWRITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTW LCHNLIWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTLDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHP KVDSCSTTAPF*DIPEGQQL
15670	46038	A	15761	349	718	AGPEGTTTAECPI/CQQQRPILS LRYGTISWG/DQSATWWQVDY IRTLSSWKWQSASAKTTIHGLT KCLIHHDIPHSIASD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSFPN
15671	46039	A	15762	143	469	ARIQ/GSRNQGV EVEVAPLTVT PSDPLANVLLPV PATLPSAGLEI LVPEEGR LPPGDTTMMPLNWN LRLPHGHFGLLLPLNQAKKG VAVLGGVIALDCQDEISLLLYK
15672	46040	A	15763	1	2712	
15673	46041	A	15764	3	578	LKSRQAPRCEVESVTHEEVYYT RKELFEFSNLYRKKSGEQIREWI LRKTDG SWRITVDYRKL NQMV TPIAAAVPDV/VVSLLEQINTSP GTW LCHNLIWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVAN TLDLLPALMASW/ENSP*SIDRG RED*SLVHKWFCTICRHHPKVD SCSTTAPF*DIPEGQQL
15674	46042	A	15765	1	461	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFP GTWYAAIDL ANAFFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTLDLLIHKRSKEAHTAASRIR VSCLPEQKSHEQTL PWEQVP
15675	46043	A	15766	1	1371	
15676	46044	B	15767	54	864	

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15677	46045	A	15768	2	1148	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI P\EFHCLSKLIHLLIPGMQPLT WQ/HALFSIPVHKGYINSLALC/ Q*CYLERT*LLFTSTRYHTGPLH **HYADWIIQCARSRKQTGLTG KGQRFVLTERDTY\YGFTYPAH NASAKTTIHGCTECLTHPHVIPH SIASEQDTHFTAKEVWQWAHG NGIHWSYHVPHPHPEIARLIEWW NGLLKSQVQCHLGDNTLQGW GKVLQKAVYALNQYPIYGTVS PIARIHGSRNQGVVEVAPLTIT PSDPLAKCLFPVPKTLCAACLE VLLPGGGMPLPPGDTTTIPLNRK LRFPLEHFGLL
15678	46046	A	15769	917	2352	DTISHQLEWRSLKSQETTGAIEI SATIKDLKGAGVVIPTTSLFNSS VWPVQKTDKSWRMTVDYCKL NQVLTPNAAAVPDVVPLEQIN TSPGTWYAAIDLANAIFSIPVHK AQQKQFAFSWQQQYFTTVLP QGYISSLALCHNLIRDLDGFL LQNITLLVHYVDDIMLIGSSEQE VANALDLLVRHLCVRGWEISPT KIQGPSTLVKFLGVQWCGACR DILSKVKDKLLHLAPPTTKKEA QRLVGLFGFWRQHHPHLLGGLLQ PLYLVIQKAAIFEWNPEPEKVL QKVQAAVQAALPLGPYDPTDPI MLEVLVADRDAVWSLWQALI GESQQRPVGFWSMALPSSADN YSPFERQLFACSWALVETECLT MGHQVTMQPELPIMNWMLSDP SSHKVVAQQAQHQEVAQMPPRV STPATLPSLPQALMAPWTVPY DQLMEEEEKARARYAGTIQKWT AAALQPLSRTSLKDSGEGTSKW
15679	46047	A	15770	1	861	
15680	46048	A	15771	5	90	
15681	46049	A	15772	1	324	MVQEASEVIGQLQSSAAK*AM HWAGFSYLTKKSLNAN
15682	46050	C	15773	1	726	
15683	46051	A	15774	364	543	ARGAARSMKHTSGDETKRQKL D*VRLTGIRASREEVTKEAGPR KRIMCSGMDELNGGLQL
15684	46052	B	15775	1	1056	
15685	46053	A	15776	1	282	

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15686	46054	A	15777	167	954	KRVTSKLKSPRRGSPHCSRNPV LLRGIGRYSRSAMYSRKAMYK\ RKYSAAKSKVEKKKKEKVLAT VTKPVGGDKNGGTRVVKLRLK MPRYYPTEDEVPRKLLSHGKK\ FSQHVRKLRSITPGTILILTGR HRGKRVVFLKQLASGLLLVTG PLVLNRVPLRRTHQKFVIA\TFT KIDISNVKIPKHLTDAYFKKKK LRKPRHQEGEIFDTEKEKYEITE QRKIDQKA\VDSQILPKIAIPQL QGYLRSVFALTNGIYPHKL\VF
15687	46055	A	15778	1054	1403	MVEGGILRVNTSVECKTGPF SPHILWREPFCVQVGKKKKEK VLATVTKPVGGDKNGGTRVVK LRKMPRYYPTEDEVPRKLLSHG KKPFSQHVRKLRSITPG\TILIL TG\RHG
15688	46056	A	15779	1	388	
15689	46057	A	15780	1	456	MKLPEEGSLSDICCSAIFA\VLQP LLVIPRETGSGVDLQQTPTDLQ LRQTESQIMSELPFTVASKRIKY LGIQLTKDVKDLFKEIYKPLLSE IKEDTNKWKSI PCSWLGRINIVK MAILPKVTYIFNAIHIKLPMTL EKT\FIWNRKRACI
15690	46058	A	15781	1	504	
15691	46059	A	15782	1	1836	



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15692	46060	A	15783	285	1949	RGEMNSRGRNNLSIINKTDFPFI ALNAHKRKHRSKIDTLTSQK ELEKQEQTNSKASRSHEITKIRA ELKEIETHNKPFFKISESR\SWFF IFYF\ERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIEAIINSLPTKRSPGPDGFT AEFYQRLKQCRKAHLDPVSLT HRSGPGAREDRLSDSGDASRGC WNLSQHA AVTSPESERRIRTL SCR SVGVCRRSTDPVCLGISSG GCRTVNIGEQQMLLPDRSSGSF VSEGYRPCEVSAPTGGCPPVRC LMINTVSLIGVKFTEVFDSINISE HLELACLQDHNSLLAREQNW EDEFDELTEVGFRRWVITNSSE LKEEVQTHCKEVKNLETRLDE WLTRITNAEKSLKDLMEKTM AGELRDACTRFSSRFNQLEERV TEIEDQMNMKQEEKFREKRIK RNEQSLQEIWDYVKRPNLHWL GVPESDRENGTKLENTLQDIIQE NFPNLARQTNIQIQEMQRM
15693	46061	B	15784	596	1414	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15694	46062	A	15785	610	2986	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKDQRTSSPTKDCSSSPATE QRWMENDFDELTEV/VLQKPG RDTTKQKEKFRPISLMNIDVKI LNKILANRIQQHIKKLIHHDQV GFISGMQGWFNICKSINVIIHHIN RTNDKNHMIISIDAEKAFDKIQ QPFMLKTLKKLGIDGYLKIIRA IYDKSTASIIILNGQKLEAFPLKD RTRQGCPLSPLLFNIALEVLARA IRQEKDIKCIQLGKEKVRLSLFA EDMIVYLENPVVSAPNLFKLISN FSKVSGYKINVQKSQVFLYINN RQRESQIMNEFPFTIARRRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNMPCSWIGRINIM KMAILAKVIYRFNAIPIKLPMTF FTELEK\TTLKCI*NQKRAHIAK PILSQKNKAGGITLPDFKLHYK AAVTKTAWYWYQNRDIDQRN RTEPTEIMLHIYNHLIFDKPDKN KKWGNDSLFNKWCWENWLAI CRKLKRDPFLLTPYTKINSRWIE DLNIRPETIKTLEENLGNTIQDIA MGKDFMSKTPKAMATKAKIDK WDLIKLKNFCTAKETTIRVNRQ PTEWEKIFAIYSSDKGIISRIYNE LKQIYKKKINNPIKKWAKDINR HFSKEDIQAASKHVKKHSTSRIF MQIKTTLG YHLTPVRMATIKKS KNNRCWC GCGEKGTLIHCW/M
15695	46063	A	15786	1	906	MVNQKRYHIPGGTAEISGTIKK LKNAGVVIPTTSPLNSPIWPVQ KTDGSRMTMDYHKLNQVVT PIAVAVPYVVALLEQINTFSC WYAAIDLANTFFSFSVHKA/HK K*FAFSRQGGQYTFTVHPYDN YSPFERQLLACYWASVETEHLT MGYQVTIQLELPIMNWVLS DPS SHKLGHAKQHSIWKWYIRD RARAGPEGTARIHRSRNQGEV EVAPLTITPSDPLARFLLPVPTIL HSAGLEVLVPEGGTLPLGDTT IPFNWKLRLPPGHFRLLLPLNQ QAKKGVTVFAGVIEAIKMK

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15696	46064	A	15787	1	909	MVLEVSVSDDRDAVWRLWRAPIGESQQRSLGFWSKVLPSADNYFPFERQLLACYWALLETDRLTVGHQVTLQPELPIMNWVLSDPSSHKVGVHVHQHSIIKWKWYIRDQTRAGPEGTTTPVITQ/WDAHEQSGLSGRDGGKQGRFVLTVGVDYSGYWFAYPAHNASAKTSIYGFTTECLIHCHGIPHSIASDQGTFLTAKEVWQWAHAHGIHWSYHIPHHPIAAGLIEWWNGLLKSQLQCQLGDNTLQGWGKDLQKAMYSLNQRLIYSTVSPISRIHGSRNQ RVEVEVAPLTITLSDPLAKFFFL
15697	46065	A	15788	1	754	MQNNVDSFQEPPTPLFSSRPIARLKSKQAPRGEAESVTHEELESIRLRAKTSKISSLTFRGWGKVLQKAMYALNQHPHYGTVPPIPRIDGSRNQGVEVKVAPLTITLSDPLAKFLLPVLSALHSAGLEVLP EGGILPPGAGDMRMIQLNWKL SLPPGYFGLLLPLSQQTKKGVT DLGGVIDLDYQDEISLLFHIKVNKGLQQPNPDRTTSGPDPSGMKVWVTPPGK/EPQPAEGLAEGKGNTIEWVVEE
15698	46066	A	15789	686	1506	VETVHMLMQIGEFKKT DVS/WKTVDYHKLNQVVTPTAAAVPDVVSLLAQINTYPTGWYAVIDLENAFFSVPVHNAHQKGFASWQQQYTFTVLPQGYINSPTLCHNLI RRDPGHFSYPQDITLVHYIDDMIGSSEKEVANTLDLLPIYQVTLKAANYEWGPEQEKA VQQVQA AVQAALPLGQHNPADPTVLEVSADRDALWNLWQAPIARIHGSRNQGVEVEVAPLTITPSDPLAKFLPPVPATFCSAGLEVLPVPEGMLPPGEIETIPLK
15699	46067	A	15790	422	537	VNQFGVIFCAAHIN*YECLKQSFKTQTDYFSPPLNTSQ
15700	46068	B	15791	1	519	

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15701	46069	A	15792	53	753	SLGTGTLRVLLGTAE AQMLQFS HLYADYGGKPALEDINLTLESG ELLVVLG/PSGCGKTTLLNLIAG FVPYQHGSIQLAGKRIE PGAE RGVVFQNEGLLPWRNVQDTVA FGLQLAGIKKMQRLKFAHQML KKVGLEGADKRYIWQLSGGQR QRVGIARALANPQLLLLDEPF GALDAFTRDQMOTLLNLWQE TGKQVLLITHDIEEAVFMATEL VLLSSAP\GRVLERLPHI
15702	46070	A	15793	2348	2760	LWLV CINC FIPAFLLMLRWLPR LKPLSQLSVPTYRLPSVPFLKPT GMESPEAISRVSGKGIL*RDSDA YSVLSYHYPHRHPSSIIVDHRS SIDP*PIVDHSSSI AKRSGTFPLG YWEV FVQLTFGQQRQASGILQ
15703	46071	A	15794	2	415	HPGLETDDLSP LPAALEPQGG GRPSIQGAPRGSFTRIEAGTPHV PAPCPAAQRNQGWGLVGAWL GFMAP*EQSVASSWK*PLMKS QYSREVISHLPLVPMQQGRPVM TQSMWGWLVWFPALFLVQIGH LVMSSGHS
15704	46072	A	15795	428	885	GISMKLSRISAI/NWNKISDDKD LEVWNR/LTSNFWLPEKVPLSN DIGAWQTLTVVEQQLTMRVFT GLTLVDTLQNVIGAPSLMPDAL TPHEEAGLSNISFMEAGHARSY SSIFSTLCQTKDVEDAAYA WSEE NAPLQRKAQIIQQHYRGDDPLK K
15705	46073	A	15796	1	1125	
15706	46074	A	15797	57	303	SHKHYADALLYPAPDVCTAC* LLRGNRRDQSKSVTAKRHLTAA HFRFVRMVRHGNH/SRLRPDSF R*PVSPDR*PPLRAAHFR
15707	46075	A	15798	3	430	
15708	46076	B	15799	1	1338	
15709	46077	A	15800	380	1043	WTRWRASAADNLAHGRWGEG KLVVTTGASGAPDRQAARCGC IWRKISWYRSKSGKHPLTPKEV EKTGWGLKIRGMGKQQA\ERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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15710	46078	A	15801	1	900	MAAIAFLITWFLSHDKKRIRILK RLSGGCGNMADEFPGGAVVFTV LNLTHWLEDWGLPVHWRSSC MPSGLEYLIVLIFKGVIVAVHLL IVDALNLIRRIHAV/QGSPCVET CQHALDQLIMHSQPTHAVAVF DDENRSSGWRHQGLPDYKAGR PPMPEELHDEMPALRAAFE\QR GVPCWSTSGNEADDLAATLAV KVTQAGHQATIVSTDKGYCQL LSPTLRIRDYFQKRWLDAPFID KEFGVQPQQLPDYWGLAGISS KVPGVAGIGPKSATQLLVEFQS LDGIYENLAD\AVAEKWRHKL
15711	46079	A	15802	1	1350	
15712	46080	A	15803	1618	2082	
15713	46081	A	15804	1	803	MINLIGSDVNYDWLKLPLVHL HWYDKEVRPGRKVGHNLNTDS DTSRLTATLEALIPLPPEYASG VIWAQSLIRCVKHIRHCAPIAG CGTGCRPDKTRQASHQAQMSN AYDYSEIQGIGKQKAANRVAEP RTYHSFASITDRRADLLKPGNH AQDGRLTAARRADKHDELFIG NFQKADNRGQVSDSVEGNSNC APVKPAPIPTERIPLALMASMPA CASSMPIHACGGTPSPAQAARK ISGSGFEFLSWEASAQVKNSR SSSAKIVGAFRETEASPTICC ARRSASKERMPG*ARADPHRA HTAGVNGVNARLRIFNADTCL RRHAQPCTGGEKDFRVRFRVF KLGSIRAEGEKLAQLQRR

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15714	46082	A	15805	1	1655	MRGHNWIDMDQARQQSTPHT DRKICHKNDRPRTTPLRKIDAH PHTLIILPAESTLSTTKYKLRAL LVENTNKKDKSAVSVVFRGSVL HQQAANFPNLMLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSESVPAAIAVRG LGSMIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLTCGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLLPVVN YLKDKLSNPVRLVKDYLDGVD VAEGELVVLENVRFNKGEKKD DETLSKKYAALCDVFVMDAFG TAHLRAGFLTGTGKLRCSLRC AGPLLAELDALGKALKEPARP MVAIVGGSKVSTKLTVLDSLSK IADQLIVGGGIANTFIAAQGHD VGKSLYEADLVDEAKRLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDA NVVINA VFSYVTNVWGWA F WYMWVMLFGWFWLVFGPYAK KRLGNEPPEFSTASWIFMMFAL
15715	46083	A	15806	1	1359	
15716	46084	A	15807	670	1008	
15717	46085	A	15808	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPELPLKLLGRPTEGE YNEEF/SLLPVVNYLKDKLSNP V/RLDGVDVAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLSK /IADQLIVGGGIANTFI/AAQGHD VGKSLYEADLV/DEAKRLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSKISYISTGGGAFLEL WKVKYLPVAMLEERG
15718	46086	A	15809	465	888	RGLVALSSERRCRLRRRNHPES GTRSPDPAGAASLSRRFFYAPP GTPETGCGYSSRSRSQRKR/LST WRCNS*ETPKSPPKACCRPARIP APRSSSVKKASACGPAAVMKK RCRKASITPISKITCAIHRMRRW TCTKRAAF
15719	46087	A	15810	417	707	IQIHERSWRYLHWWSSVRRRA A*YGAPL*RDGIQRGTRRISQV YQ*SSVRQLRRDASASGSAPRV CREYAAACYLRHEHWSGDAVS PTPRMLKSFV
15720	46088	B	15811	1	4350	

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15721	46089	B	15812	1	2862	
15722	46090	A	15813	1	1471	MLHSRGFLAEVFGILARHNISV DLITTSEVSVALTLDTTGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSGIGAQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RNGTQYDAWGKAVRTTQGGGL TRSMEDVAAGRVIRLTSENGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHA YNAQGL ANRCIPDSLPAVEWLTGSGYL AGMKLGDTPLVEYTRDRLHRE TLRSFGRYELTTAYTPAGQLQS QHLNSLLTYRHANFAL
15723	46091	A	15814	1	1367	MSKLLERFRYFKQKGETFADG HGQVMHSNRDWDYSYRQRWQ FDKIVRSTHGVNCTGSCSWKIY VKNGLV TWEIQQTDYPRTRPD LPNHEPRGCPRGASYSWYLYSA NRLKYPLIRKRLIELWREALKQ HSDPAADNDLIARFQSFTNQPI ANRLTGNDRARFNLT FIVNNQH ATAITTTGTFLPEWSTTFIITLIL QSKVQAIDLTKEAIVTVGCNTIS TTVHEVVSASIGIATKFWQHIGP CFYVIYDTVVTTIVESRTTEYSP DVVTGLITRITTPDGRASAFYN NHHSQTSATGPDGLEIRREYD EWGRLIQETAPDGDITRYRYDN PHSDLPCATEDATGSRKMTW SRYGQLLSFTDCSGYVTRYDH DRFGQVTAVHREEGLSQYRAY DSRGQLIAVKDTQGHETRYEY NAA/GDIRQCESDLQSPSCSQYR AIDGESLSETARYSVHQ

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15724	46092	A	15815	357	1733	TADSPETLRCQTSGENARGAGT VERAGKSLWRSR*SHRP*STR TGDIHCQIQTNFSLFN*QHPGQH R\YGSQTAINQSLITHDPEYPEN LPAAPLVRYGWTPRGELAVVY DRSGKQVRSFTYDDKYRGRMV AHRHTGRPEIRYRYDS DGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLKR VVK KEHADGSVTQSQF DAVGRLRA QTDAAAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGP DGLELRREYDELGR LIQET APDGDITRYRYDNPHSDLPCAT EDATGSRKTM TWSRYGQLLSF TDCSGYVTRYD HDRFGQMTAV HREERLSQYRAFD RRGTVIAVK ETQGLETGF EYHFPVDPGVIA P KG/SRNGNSQS V GKRRSTEDIR G*TRWRGYTAD RRAAKTHARV E*HLRARPRVCALFFPKQCERH
15725	46093	A	15816	1595	3228	DNNAKLFRAGQMKVLKPYVDS GKIKVVG DQWVDGWLPENAL KIMENALTANN NKIDAVVASN DATAGGAIQALSAQGLSGKVAI SGQDADLAGIKRIAAGTQTMT VYKPITLLANTAAEIAVELGNG QEPKADTTLNGLKDVP S RLLT PIDVNKNNIKDTNLPAAPLVRY GWTPRGELAVVYDRSGKQVRT FTYDDKYRGRMV AHRHTGRPE IRYRYDS DGRVTEQLNPAGLSY TYQYEKDRITITDSLDRREVLH TQGEAGLKR VVKEHADGSVT QSQF DAVGRLRAQTDAAAGRTT EYSPDVVTGLITRITTPDGRASA FYYNHHNQLTSATGP DGLELR REYDELGR LIQETAPDGDITRY RYDNPHSDLPCATEDATGSRKT MTWSRYGQLLSFTDCSGYVTR YDHRFGQMTA VHR\EEGLASQ YRAYDSRGQLIAVKDTQGHET RYEYNIAGDLTA VIAPDGSRNG TQYDAWGKA VRTTQGGLTRS MEYDAAGRVIRLTSENGSHTTF RYDVLEQYCGQVIKAHAVSRF
15726	46094	A	15817	1	627	
15727	46095	A	15818	701	895	



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15728	46096	A	15819	1412	1705	LASISTSCAPPKVNCGVMAIFLA SDSRLWGLRAQATSRSTLSLM TRSGWLAIQ*NALRSWLASHE TKRPPSTLGGNTVPS*ALRLGIL ASSRILL
15729	46097	A	15820	344	547	
15730	46098	A	15821	1	1518	
15731	46099	A	15822	1693	2455	VLAAFTRSKQRYGAPRLTDEL AQQYPFNVKTVAASMRRQGLR AKASRKFSVPVSYRAHGLPVSEN LLEQDFYASSPNQKWAGDITYL RTDEGWLYLAVVIDLWSRAMA LLRRKSPGNVIVHTDRGGQYCS ADYQAQLKRHNLRGSMASAKG CCYDNACVESFFHSLKVECIHG EHFISREIMRATVFIISNVITIGG GGTVAARGGVP*AVKSNVNDV RRNCLARSSNNGWIFPPVVVNG WRQQALTIVAGICC
15732	46100	B	15823	1	1407	
15733	46101	A	15824	1	3252	
15734	46102	A	15825	1	2409	
15735	46103	B	15826	1	2802	
15736	46104	A	15827	1715	1824	
15737	46105	A	15828	410	720	PGSRAVIGWSMSPRMTAHWPA MPCRWRCCGGVRTYAPEPTG*R RWLQNCSSACSS**LRKTSRKNR TT*RTPARSSSAPPLMLKQPFTR QWPLNTPWKPPRLSPS
15738	46106	A	15829	905	1008	SCDSYRLSSRAAAVTPMRSASF RASGFLLVILFVCRVSVVGCRV LAWSGGSVFRRGVPLAWTVLR WVRRRCGCGVGRCRGLSAVV YPSGIITVDSARSWRIMGRSGSP LAIVGLAGCWSQPRL*TDASF KLQGFRVFTGDTICM
15739	46107	B	15830	1	3148	
15740	46108	A	15831	1896	2062	SVCYPGRN*IPSG*N*PRIWSDP VQRRERAGKKWLHENPGWRK **PDYHYRSEAD

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15741	46109	A	15832	1	1456	MSTEIARLKRLADGMKSWLS SKRPRHTSRAPEMKYVFIEKHQ AEFASKQCAACSGWPATAGNV VSAADKDKHASAVPPHCDSVV LAAFTRSKQRLPLNVKTVAASL RRQGLRARPPGSSARSATAHTA CLVRKSVGAGFLRQWPEPKWA GDITYLRTDEGWLYLAVVIDL WSRAVIGWSMSPRMTAQLACD ALQMALWRRKKPRNVIVHTDR GGQFGDRWK/ALANALNIPLDQ LSARISANPKGGFIYLAREVNP DMADYIKKLKLPGIHVREESRR YYPSTGEVTAHLIGFTNVDSQGI EGVEKSFDKWLTGQGERIVRK DRYGRVIEDISSTDSQAAHNLA LSIDERLQALVYRELNNAVAFN KAESGSAVLVDVNTGEVLAMA NSPSYNPNLNSGTPKEAMRNRT ITDVFEPGSTVKPMVVM TALQR GVVRENSVLNTIPYRINGHEIKD VARITTEEDFNHASAARFVCAA AERALQNH
15742	46110	A	15833	2	929	
15743	46111	A	15834	1	472	
15744	46112	A	15835	1	513	
15745	46113	A	15836	1	254	CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTGAA YSLSRDQKRV/LRYEPVSQFRLS ETQKHQSVCHAFIRIPSVS

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15746	46114	A	15837	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNLDTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPLMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTS LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGNSVLRK
15747	46115	B	15838	1	1734	
15748	46116	A	15839	1	971	
15749	46117	A	15840	1	1143	
15750	46118	A	15841	1	556	
15751	46119	B	15842	8	1000	
15752	46120	A	15843	1	1169	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVG YRTGD FQLHTNVNDGA EFGGSVYQKV CEELDALINLA WTSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVS YTPPLEAGVKLNLSALCDN LKTCHTSHGSVMAETA VINHK KRKNSPRIVQSNLDTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYRKPDGSGIVSLKIDWII ERYQLPQ/TYQRMPPDFRRRFLQ EEFESLNRQITGSEIVAMINSLST KKSPGPDGFTA EFYQ
15753	46121	A	15844	1	1509	

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15754	46122	A	15845	1	558	
15755	46123	A	15846	1	1773	
15756	46124	A	15847	1	2256	
15757	46125	A	15848	1	812	MEVLASWATFTLGQTEQHVD WISAGAAPQGPIVKQLPSPVPPT EQLEQEKPTIGSAPSTPNKLLL SHSNCQLPRPLRSITNISACFSLE LAIDHRGFPHSPGARSLYSNSVF GTYQLCDLCDNLKTCHTSHGS VMAETAVINHKKRKNSPLIVQS NDLTEAAYSLSRDQKRMLYLF VDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPW/FIKRSPE*RRGKFPFT QMGQD
15758	46126	A	15849	1	1773	
15759	46127	B	15850	1	1755	
15760	46128	A	15851	1	726	MPASGNENDLNMPSGTIEIFVR CYVEVERIMSAWTEQPNEHRT MMWSVLLQPCDNLKTCHTSHG SVMAETAVINHKKRKNSPRIVQ SNDLTEAAYSLSRDQKRMLYLF FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRG/LYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKS
15761	46129	B	15852	356	671	
15762	46130	A	15853	1	2121	
15763	46131	B	15854	721	2739	
15764	46132	A	15855	1	5828	MQEQQQASSLIRSGNGRLPGSG AQRTPCHIRRDGSQRRVCDDCK QQWWKAKYNIPSGLHACTATL EETHILDGSAHVQVFYKGQLH VMRVPCTDYFDTQKNPNLSHL HGSVMAETAVINHKKRKNSPRI VQSNLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQN
15765	46133	B	15856	537	1318	
15766	46134	B	15857	1	411	
15767	46135	A	15858	1	1356	

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15768	46136	A	15859	1	1215	MPYDRPFTVMAAFPLCPACDK EYRDPLDRRFHAQPVACPECGP HLEWLKMGKIVAIGGIGGFHLA CDARNSNAVATLRARKHRPAK PLAVMLPVADGLPDAAARQLLT TPAAPIVLVDDKKYVPELCDDIA PDLNEVGVMPLPANPLQHLLQ ELQCPLVMTSGNLSGKPPAISN EQALADLQGIADGFLIHNDRDIV QRMDDSVVREIRRNAAPF/AGA VLSQHLGDLSDDGIMQWRER YSLMQNIYDFTQYVVHDAHP GYVSSQWAREMNLPTQTVLHH HAHAAACLAHQWPLDGGDVI ALTLDGIAQPDERSRSEDVDRA HQRGHERDRRRRRSGTSHLTR VDLKEDGKGLKIVRQSLPYGTA SGTHGLYFCAYCARLHNIEQQL LSMFGD TDGKRDA MLRSPNR
15769	46137	B	15860	74	2050	
15770	46138	A	15861	2	703	LQARFPLSWRNFPIFACYAGL FCLSASIIYP/DHLCPSVSPRAFA GPRHRRHLLVLHRCGLRH/TK RPGPGPGPARALAIWPPDPGC* RCRRPSLPASSLRSSATPTCTST QPALEWCVAVYAICFILAAIAIL LNLGECTNVLPPIFPSFLSALAL LSVLLYATALVLWPLYQFDEK YGGQPRRSRDVSCSRRHAYYV GAWDRRLAEAILTAINLLTYVA DLMHSAHLDFSKV
15771	46139	A	15862	1	849	MAQPLAKQWTPVSPRALLVSIS SMPPRPAADVTVCRHRNCTLRE LLYGFA YAAAQQLNLHGDVCN DGDG/VEVRLREDPETFLVQLY/ QHCPPLARTGGTMNTQIVPDA ATCPASLSEMNTPGERRYYPF INCTHYGPSFPIIRAMPYDRPFT VMAAFPLCPAC/DKEYRDPLDR RFHAQP/VACPECGPHLE/WGIG GFHLAC/DARNSNAVATLRARK H/RPAKPLAVMLPVADGLPD/A ARQLLTTPAGAGLWLGNGYP RAPDNANSTAMSCASHAHSFG GGHPRGR
15772	46140	B	15863	1	2688	
15773	46141	A	15864	1	1578	

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15774	46142	A	15865	1	877	MQAAHRLRPAYRIKTGKPPAL ADYHPAYQEMLSRKQDRVIDQ IDFGIKDTVEILHMGQIQSMGRE FALSLRFSIHGHNVHGNESPEM GPERRSGFYDEWSPERIIQYYRP AREQLMNELVQILKNTRQHLN TGVSHMIPFVVSQGILLAVSVM LYGKGAVPDAVADPNLKKLFD NGVAGLTLMVPFLAAYIGYSIA ERSALAPCAIGAWVGNSTGAGF FGALIDAFPRLSEEINPALPEAK VMACLEAVARQDNVDSPQELP PTPLFASRPITRLKSWWAPGGE VESGTHKK
15775	46143	A	15866	3	423	
15776	46144	A	15867	633	771	NNRSHPALCTNRPPRTRLVFYP LLAPNA*LAALQKGWAYGAGH NA
15777	46145	A	15868	1	4014	
15778	46146	A	15869	1	180	SGHPFIPLKDLTQIAIGDVFNIN LILWANREIIHSVP*RY*HDANI QCFVVISFVRSQQ
15779	46147	A	15870	815	1905	IFQEHIMDHLMPKFGPLAGLR VVFSEM/WRAEVIWIENVAWA DTIRVQPNYPQLSRRNLHALSL NIFKDEGREAFKLKMETTDIFIE ASKGPFAFARRGITDEVLWEDKP KLVIHLSGFAHQVSQISTHQG SSNWVSPDQLQCNTQTNSPKQ LFSTHCMQCRPNSTTNSRQFQS NPVNHALNHQSKPHHPLVYQA HKAKRAHRAKSITASRKQATT QQVGAPAGGHTHTSSSHPQTT KALEQVKHLTTRQAILSKAKPQ ATSPIPRDTGPLRGRQFHALNPS TTVIGQPANQRIGQHGHQPQFKP KTPFWPQPKVKPNRQCTSKTY SNGEQNIPQTYAIRTKNRSTYPR NLKQQPLNPGKAKT
15780	46148	A	15871	1	361	QTTGISFQGRGGAGPGVPTRTQ/ CLRCHGGRHG/HPSHLCKPNKG DPRKIRLKMSWR*PWFAIGPRD WSSSRPKPTSPRGSCRSFIEASK MSAPVVWSTKTHSSRSMLSFSL MEDFVTALSIL
15781	46149	A	15872	1	447	

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15782	46150	A	15873	1	1424	MLLEQLSQHKLDMIISDCPIDST QQEGLFSVRIGECGVSWFCTNP PPEKPPFACLEERRLLIPGRRSM LGRKLLNWFNSQGLNVEILGEF DDAALMKAFGAMHNAIFVAPT LYAYDFYADKTVVEIGRVENV MEEYHAIFAERMIQHPAVQRIC NTDYSALFSPAKLRRALYHPAS TELHPACGKDFRQLYRRIQNQI QRHALWHKIFDVEIPHPILIIAR VSANMPHTGCRIAIEWPGKVVE AILRLTNDAPAYLPYGFNHKSK MRSEGMNPNYQRFMELALSNO VLKCGEFTLNRGRKSPYFFNAG LFNTGRDLALLARFYAEALVDS GIEFDLLLAPAYKGIPIATTTAV ALAEHHDLDLPYCFNRKEAKD HGEGGNLVGSALQGRVMLVD DVITAGTAIRESMEIIQANGATL AGVLISLDRQERGR*CDHRRNG DSRVDGDYSGQWRDACWRVD FARSSGTRARRDFGDSGS*A*L QLQSDLYHHPERPDCLPGREAG NGGTSGGG
15783	46151	B	15874	1	1086	
15784	46152	A	15875	484	729	CTQFRKTCFTCKASNGFCFATS CNLIYTSEIICRGPTG*HNLIASL LQRIDNLRKFIVIPTLKYLTRCR LDDNIMIFYAQGI
15785	46153	A	15876	1717	1971	PANAWAEMWEYSAWQRRMYS MG*TSKVVVHPGATDRW*NTN GCYRIFWIAAPFVPAAVIHGNIL PTHGACVHKGFGRAPAGAAVE
15786	46154	B	15877	1	765	
15787	46155	A	15878	103	823	VPACAGLKKEARSLLASPPRLL NTKLQASCRA LFSPPIQSRQTG ISFQGRGGAGPGVPTRTQ/CLRC HGGRHG/HPSHLCKPNKGDPRK IRLKMSWR*PWFAIGPRDWSSS RPRPTSPRGSCRSFIEASKMSAP VVWSTKTHSSRSM LSFSLMEM PARMPITSSMPSTPLRQGSVKFE DFVTALSILLRGTVHEKLRWTF NLYDINKDGYINQEEMMDIVK AIYDMMGKYTYPVLKEDTPRQ

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15788	46156	A	15879	1	2926	MVKDASQSQASLGDAFLPAS GVQYTHERSPDSPKLSQECPSG VVNEDTFKQIYAQFFPHGGLMS ENGTGKKASVFGSTGSGALLLE EGERRREQPLIEMRKPPHVLIN YQAKVGGNSIPSPSLCKPAFPPL PSWAVDLASARQKEDASRSLO NKEEDFYTSQPGFPALALGCCL RVNLLLGHRGISAGSSYPITST PCHLCKLGQEVFAKPLNLQDQ CQQNLVMQVLKLVNLCLNDFD IGSSADESADDLCTV
15789	46157	A	15880	1	1521	
15790	46158	A	15881	1	1182	MDKFLDITYTLPRNLQEEVESLN RPITGSEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKL AQNLLKLISNFKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIVNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR\PSEI TPHIYNYLIF
15791	46159	A	15882	1	690	
15792	46160	B	15883	1	458	
15793	46161	A	15884	1	719	
15794	46162	B	15885	1	3552	
15795	46163	A	15886	1	321	
15796	46164	A	15887	1	362	
15797	46165	B	15888	1	489	
15798	46166	B	15889	1	1660	



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15799	46167	A	15890	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDEMNMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENG KLENTLQDIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITNPTEIQTTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEEHSLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMQNRLRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
15800	46168	A	15891	1	1177	
15801	46169	A	15892	1	3663	
15802	46170	A	15893	1	1995	
15803	46171	A	15894	1	4191	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSLDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKAVCRGK FIPLNAHKKRQERSKIDTLTSQL KELEKQEQTSHKASRRQEITKIR AELKEIETQ

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15804	46172	A	15895	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEIKMFF ETNENKDDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLIGDGYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQK\RARI AKAILSQKNEAGGITLP
15805	46173	A	15896	1	1740	
15806	46174	A	15897	1	880	
15807	46175	A	15898	1	2777	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSAEMEDEMNEK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLA TLSD HSGIKLEINSKRNPQNHANTWK LSNLLNAHWVNNEIKMKVKN FFELNDNSDTIYQNFSD
15808	46176	A	15899	326	3096	QTERTSTPKTHLYVTI IKDQK*I KPQRRGKNRGEKLETLSRAP VLLQRNAVPPQQQRNKAGR RM TLTS*EKKSSDNQTTPSYRRKF KPM AKKLKTL/RKKLDECITRIT NAEKCLMELMELKAKARELRE ECKSLRSQCNQLEER\INKIDRP LARLIK RKREKNQIDAIKIDKGD ITTDPTIQT TIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTA

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15809	46177	A	15900	1	2047	MENDFEELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVVSAMED EMNEMKREGKFREKRIQRNEQ SLQEIWVYVVRPNLRLIGVPET LHPRDEAHLKNLIDAIKNDKGD ITTDPTIEIQTIREYYKHLYANK LENLEETDKFLDTYTLPRLNQE EVESLNRPIGSEIVAIHNSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILIHQ QQTNRPNHE*TPHNCFKENKI PRNPTYKGCEGPLQGELOTTAQ GNKRGYKQMEHSMMLMGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTILQGYSNQNSMVLVPKQR YRSMEQNRALRNNAAYLQLSD L*QT*EKQEMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNPRRKP RHYHSGHRHGQGLHV*NTKSN GNKSQN*QMGSN*TKELLHSK KKKNY*QTEQATCKMGFHN LLI*QRANIQLQ*TQTNLQEK KQPHQKVGKGHEQTLLKRRHL CSQK\NHEKMVTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS
15810	46178	A	15901	1	3285	
15811	46179	A	15902	1	3681	

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15812	46180	A	15903	1	1854	MKAEIKTFFETNENKDTTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEIET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAIKND KGDITTDPTIEIQTIREYYKHL ANKLENLEEMDKFLDYYTLPR NQEEVESLNRPTGSEIVAIINSL PTKNSPGPDGFTAIFYQRYKEE/ RENKIPRNPTYKGCEGPLQGE QTTAQGNKRGYKQMEEHSM MGRKNQYRENGHTAQGNLQIQ CHPHQATNDLHRIKGYFKV HMEPKKSPHRQVNPKEQSW RHHTT*LQTLQGYSNQNSMVL VPKQRYRSTEQRALRNATY LQLSDL*QT*EKQAMEKGFPI** MVLGKLASHM*KAETGSLPYT LYKNQFKMD*RLKR*T*NHKN PRRKPRHYHSGHRHGQGLHV* NTKSNGNKSQN*QMGSN*TKE LLHSKRNYHQSEQATYKMG FRNLLI*QRANIQLQ*TQTNLQ EKNKPPHQKVDEGHEQTLLK RHLCSQKTHEKMLITGHQRNA NQNHNEIPSHTS*NGNH*KVRK QQVLERMWRNRNTFTLLVGL* TSSTIVEVSVV
15813	46181	B	15904	1	2718	
15814	46182	A	15905	1896	5031	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEYTFPSAPHHTYSK TDHIVGSKALLSKCKRTEITNY LSDHSAIKLELRIKNPTQSRSTT WKLNNLLNNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDT FKAVCRGKFIALYAHKRKQERS KIDTLTSQLKELEKQAQTHSKA SRRQEITKIRAELEIETQKTL/Q KINE/SRSWFF/ER/INKIDRPLAR LIKKKREKNQ
15815	46183	A	15906	4	133	

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15816	46184	A	15907	95	1875	PFFGRKNYRLPSKNMPRRCRSS PLPCSMKMTI*CVLTSTATITRL PAASAQW*LDGRTLVTKNsFR YLHTLHTMGPAPEPNLTILWSE ELPIAFKKYAAQVSIVTSSLQYE NDDL MRTDFNSDDYAIACCVS PMVIGKQM QFFGARANLAKTL LYAINGGVDEKLKIQVGPKTAP LMDDVLDYDKVMDSLDHFM WLAVQYISALNIIHYMHDKYSY EASLMALHHRDVYRTMACGIA GLSVATDSLSAIKYARVKPIRD ENGLAKDIQGTTEPQFRNSHSR TSGTVTLYLPVSTFVGTGFFIRV DPPKKPLKIRKIEFVEIYEPFSEG QAKAQADRCLSCGNPYCEWKC PVHNYIPNWLKLANEGRIFEAA ELSHQTNTLPEVCGRVCPQDRL CEGSCTLNDEFGAVTIGNIERYI NDKAFEMGWRPMSGVKQTG KKVAIIGAGPAGLACADVLTRN GVKAVVFDHRHPEIGGLLTFGIP AFKLEKEVMTRRREIFTGMGIE FKLNTEVGRDPRASSFYEEKQL IARKALPFIDNKTTMAADSSST VMELLKLLQDRSGLTLLTNSAE AIHVLAQSEIKVVSTGGELNKN TSLQGRITKEIIRRYHVDIMWL PDEL RVEKGFSPDTLKLLEAKG QKVALKEAMGSTQSIMVGPDE RRTGFSYLR YQNL MIRVKF
15817	46185	B	15908	271	2118	
15818	46186	A	15909	597	743	
15819	46187	A	15910	573	1066	IRAQNGSPWLSFLVDSVCVLKA CVD AVMRAGICSVSYWQYQS GVGANSSALSGFSQGAIMMLES IKAEPGLASRVIAFNTRYSSLPE TASTATTIHLIHGGEDPVIDLAH AVAAQEALISAGGDVTL DIVED LGHAIDNRSMQFALDHLRYTIP KHYFDEALSG
15820	46188	A	15911	1	2652	
15821	46189	B	15912	1	1494	

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15822	46190	A	15913	1	1733	MGVVGSKGTIFGSTTTQHGSFIPY LTGYLTYTHGHSPANPKPAVG GQILTAVLPAHDGYVSRIMTM NTQLTTPLTATHTARQTASLIS VIGRQLRCFRHSSQPSVLTHVR DDSTQYAQLDMANGQPTSHGY EHWAQLMYATDRRYGRHMSD AARQGCSDTGIVKFSHPEPEMS VRKFTSARSGCVRSGAWNVTV SAQTRVSQALTTLRRVHKSPM NALTVPVMAEAPSQAHGRRQ TRRLSLHQTLRLLLTTPDWGV IRRCVPVWGCLEHLDTAGFPL PNSHTMPLPIGWNDTRKRLHHS AHNGQHDVAQGRRLGRKVG LTHPKVQQQLGVDGLSLFCVY LVWYIGLHLRRPRLAYTICPSL VYGADLRVIVRLFSDSHHFMAF GNPQPKHLDCQEYALFLLNSM PDNTAEHYRNKIAIYLHCLPED DRIKAIINEIRMAIHQVSPFREEP VDCVLWVKYSQMLPNDYNPN NVAPPEKKLLQKSIEIDGFTQPI VVTHTDKNAMEIVDGFHRHEI GKG/SHASLKLRLRGYLPVTCL EGTRNQRIAATISHNRARGRHH ITAMSEVTPELRLLGW
15823	46191	B	15914	1	273	
15824	46192	B	15915	169	292	
15825	46193	A	15916	2	844	KGGVYKTSVSVHLAQDLALKG LRCLLWKGTPPQGTPSMVSRE GDPALHN*CKTQLLCLSYLGEK DDVTYAIKPTCWPGLDIIPFLA LDRIETELMGKFDEGKLPTDPH LMLRLAIETVAHDYDVIVINDSA HNRGIGTINVVCAADVLIPTP VEVMFDYTSALQFFDMLRDLLK NA\DLKGFEPDVRIFVTKYSNSN GSQFPWMEPIPECLPKHGSKK NNVRNANEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPV CNEIFDRLIKPRWEIR

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15826	46194	A	15917	1	681	MSIGGSGNSLCTRPKQQQGGTG LKQYEVSVPGTLRCLACPQACT LRKEHWIHFAPKSNYDSCRYIE EYFAYEASFMSVQLTELVIKSL EDLASLFMIHKKNPVSIPTVW YADDIRRGEREAADVLGLTLYE LMLRAGEAAFQVCRSAYPDTR HWLVLCGHGNNGGDGYVVAR LAKAVGIDDTLLAQESDKPLPE EAPLAHEAWVNAGGEIHALNI GWPESEHLIV
15827	46195	A	15918	3	774	VKCSEKCLFLPLGQFSQFIQKLR VIFLDPLFIRKGGQVTPAFAM HLHEYISQGLESILGALDIEGSY DKQRTITIATTPSVGALVLPVIY RAIKTHYPQLLLRNPPISDAENQ LSQFQTDLIIDNMFCTNRTVQH HGLFAANMVLCREGNPLLSLE DDREAIANAHAHVLLPPEQNFS GLRQRVQEMFPGRQINFSTSYNI LTIAALVANSMDLAIIPSRLYNL FSRCWPLEKLPHPSLNEEQIDFS IHYNKFSLR
15828	46196	A	15919	1	741	MITVLLIATQFAPYFTEMAKLG GFSFAGESAQISALSVGNMFGW SISELMSLGIIGVVAVGIVASV VLFLRVLSMSWLKEVIGTEKAV IAMCHLRALPGDPSFDAQLGM NWVIDKAWDDLMAHQNGGVD AVMFSNEFSLPYLTKGLVPALV AREILVRGMYVRGRKMVAFLV CCVALAISAMYELIEWAALA MGQGADDFLGTQGDQWDTQS/ GYVLRAAWRINDGDIPRSLSLP PATALWLDNRI
15829	46197	A	15920	1	678	MCHLRALPGDPSFDAQLGMN WVIDKAWDDLMAHQNGGVDA VMFSNEFSLPYLTKVRPETTAA MARIIGQLMSDIRIPFGVNVLW DPVASFDLAMATGAKFIREIFT GAYASDFGVWDTNVGETIRHQ HRIGAGEVKTLFNIVPEAAVYL GNRDICSIKSTVFNNHPDALC VSGLTAGTRTDSALLKRVKETV PDTVVVLANTGVCLENVEEQLSI ADGCVTATTF
15830	46198	A	15921	624	734	TRTLRQIVDSRAIPFT*ERLHSP NQPKNPYPPEVS

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15831	46199	A	15922	1	1923	MPFALGGDLEETPRSDPGVTF ACSLAQPMRKPTGVLGNRFHD TQEPVPVGGPGLRGFHLWHAPP LDRPAQFAAIRTDSSELMSSANP KSFTASPLMTFTPARSRINYRY YPAGTRAKGENEAAFAARIHSF LPYRRPVFWATTMGQAKSAIK PMSTAVTRDASVFQTEYERSRF GARPWPLRKAPAMGRGFHEI GVQCEAPTANTLEPSRRGAVM AAGLSFQRTPWREVLGRGEGSF LGAGSDPVLRLASLASTPFPGE KHVGSGWMGRIVLRSFALASSS LRHSGERIPGTVLPCDDIFACHQ RNYAEVFGIWRTTSSVLQPIEPV EPKCISQFLYIVLERSSSSLSLS FNSASLCRSRHDARYVLQHALF CFTTNDFGQIFTFFVSGGSGTR MSLPAEFGVIAQSDQKVLFIDA DLAVVIRITCLPSTMSWLKEVI GTEKAVI/AMCHLRALPGDPSF DAQ/LGMNWVIDKAWDDLMA LKMVRPETTAAMARI/IGQLMS DIRIPFGVNV/LWDPVASFDLA MATGAK/FIREIFTGAYASDFGV /WDTNVARSRRIASTVFRLAQ RCQPDASEYGFRMIARVFDVR GDQNSEASLRVSGSIGPRTCAP VAWQSRFPRLLDSDDVKRF QADTDSLVLH
15832	46200	A	15923	480	900	KTRYSCRGETWSNPQSSQLSAL IAAVRHPATSNVCRSARSCCIL RALRAIQFHTGCSAGNVAPEW CQFAPCWRKPLK\EESDSVFMR VIKESLWQELADITDKTQLEWR EVFQDLNHHGVYHSGEVVGLG NLVCEKCHF
15833	46201	A	15924	1	431	SKVFAGVAGCVVLMTTMPDSCN SWQKCRNKTMNKKIHSALLV NLGIYGVAQAQEPDTQAPGVS TITADEIRKNPVAROVSKIIRT PGVNLGTGNTSGQRGNRQIDI RGMGPENTLIL/IDGKPVSSRNS VRQGYRLECGDG
15834	46202	B	15925	1	1352	



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15835	46203	A	15926	31	546	CYCILFVSFSPSNRPLCCRSAGVC QRYTPDPFCLGITSRGCRRAKIT ACSFLWKLHPRGALARCQPELS CWRCLSTLLEGVSPSGGTGVR DPYEEAVCPLAELKCCAGRSA VLFRAGRQGRSLLLKLFPQLPF SPCVLCLSKLVVPSPNSTRTSKL LSIPYSRGPALLEVLS
15836	46204	A	15927	2	479	
15837	46205	A	15928	1082	1386	ADPFQEREAEKYANPIPSREFIL EHLTKREKPASRDELAVELHIE GEEQLEGLRR/RQCYALPERLD LVKGTVIGHRDGYGFLRVEGR KDDL YLS\SEQMKTCT
15838	46206	A	15929	3	401	
15839	46207	B	15930	1	3675	
15840	46208	A	15931	1749	1941	SQIPTSEAQVMSNLMGTNGVLR PARAYRNEAVLS*ALVSAMYS QTFRNASFGVPQMFTTSGV
15841	46209	A	15932	5	1465	KRSTTAQIRWISPLTSLKPRSKR QSKSCATKPKKWYVAAPCCWC SPTGISLKTLPVPAPMAVGAIQ TRLVDQSLRCDANIIIVETASAR DPHHFAVLLGFGATAIYPYLAY ETLGRDVDTHAIKDYRTVML NYRNGINKGLYKIMSKMGISTI ASYRCSKLFEAVGLHDDVVGL CFQGA VSRIGGASFEDFQQDLL NLSKRAWWRCRLSATIGCCDC TRGYLGGARITGQISSITVWGV IPVVGLCIIGWFWFSPTLYVDS WNP HHAPFFSAVGSSIAMTLW AFLGLESACANTDVVENPERN VPIAVLGGTLGAAVIYIVSTNVI AGIVPNMELANSTAPFLAFAQ MFTPEVGKVIMA\LMEMSCAGS ILGGKFTIAQVFKSSSDEGYFLT IFSRVTKVDAPVQGMLTIVIIQS ELALMTISPSLNSQLKEMVNLA VVTNIIPYILSMAALVIIQKVAN VPPSKAKVANFVAFVGARNSF
15842	46210	A	15933	1	3666	

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15843	46211	A	15934	979	1626	FSATITPPFIALQVRVFHPLDAL LLFVISLWLQLGLPDELSRFTPF CLALPIIALAWHYGWQGALIAT LMNAIALIASQTGLLLGAGIQR LRELNQSLOKELARNQHLEERL LETEESVRRDVARELHDDIGQT ITAIRTQAGIVQRPAGHPLTDA GNGAGRARYCQPSRMANR*IS VKRKVVEHRCFVDFTFTNDDG AVNVDRRAVRGVFIAAS
15844	46212	C	15935	1	666	
15845	46213	A	15936	1	1137	MGKFGHTEIGEVDVRDWS DAL QAKELQKLPGHSRKLEDPPTSL FMLLNPHSDQFSSNAHHHLHA TAIDDDYTDPTKSTYALGLNWS NSILGGFNISGYKTYSYDGDND SSNLNINWNKAFKHATVSVNW QHQLSASENNEDDGLFYVNIS IPFGRSNTATLYTRHDDHKTHY GTGVMGVVSDEMSYYVNAER DHDEPTLPAQNKAQEVLLDVV LDEAKIGVASMLGSRVRVKTW SWFADDDKQEIQQGFAGWLT GTPLVWTGSGTSKTVLTRYAT VLNRVLPVPTQVASGQCVEVE LFARYPLKKITAEKSTTAVNPG VLNGRYRVFTFTNGNHITFVSHG ETTLSEKGLKLQSHLDREEY VARVLDREAK\STPP
15846	46214	A	15937	323	695	FTGPRRSLEIEVAELKQRLDSL AIGAGGSVCWTLQGAWSPTRA KAGELKTQLATAASLR/MDKH RSNSVGP HDLYFTLLDDYLHV VDTALWLSGGKASLDGGTLLT NDAGEMLFAEHHSAGPL
15847	46215	A	15938	1	235	
15848	46216	A	15939	98	593	MSKVRLMRNLSPAPPNAVAKG ESKPGIMSGWVF*AEWAYLITG *AKKKVYGSS/ARIHLRALRY SNWRQYFAGYTFGRQYWQSPE DDHLPLLREFLARHEYMOKYL LGTESGIQGEELGASDGIKPEEV EWQTAAIEGKL DLLVTLD FRM SSTCLFSDIVLPTAT
15849	46217	A	15940	367	677	LSSCLRATQSAPAVRNWKARFL RCTVVVWQKRSSTGRNMYLPV RPTILKLRPTWHVTW*LSGASL RNWVHCCTRKKKVKCSSAVA* RKRNICPMKLHVSSTRK

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15850	46218	A	15941	1	921	MEMSSLEFLHSICSHLKCHLLY YIASAYNYDWYTQPAKLSFISE GEIKYFTDKQMLRDFVTRPAL KELLKEAVNMERRNRWVDIGP GTELDICISQAYAQFVASTAECC GEGGIKAWDYVRMGFLSRMG VLNNWLTRRRKLLWSARSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLREFLARYE RPMKKLAGRSSIALAFRGHDQ RDYEFPSKSALNIN*LRWALAS VK*TTACATGVFPVSVTGARRF
15851	46219	A	15942	531	637	SIFARLNASRRCT*TSALYALLVR LPIIQITAKGIL
15852	46220	B	15943	120	881	
15853	46221	A	15944	1	1583	MADRVDKSCSRSPGAVAHNY NPSTLGGRGGRITFWLLSANPSI NRGTLEKESRTVAQRLSVLHGI NAPEFFDKAVFSSLVTLRDEG YISDSGDAEPAETMKVYQLLAE LITSDLMIFNISATVLYITAFIAC SAAVDLTSLRGTRPYNQRAAA SKEIEDLKKKLTEGEEISGCDVS GSDGDDNEEGKIGEDEEKRNT GGNKVFPERTVETPATADAER KALETKLDVEEETRLQLNSRNR KKDLKTRQEHQSLPEKFSGLQK NVLLEAVIDPALIAQLRQAYEE ALARIAQAPAKSVWQPEEYEEA EHEILLAFRALLASDSEFLPSA WQRFIQQLNYCSMEEIDELRWS LCTIAMNTAHLSEFCVLLAER LRWLQEENTGEIDEEESFLY AIAKGNVFNFTILHLPVAVQN DTIDFYQMFARIWLPGAPGAYC DGLHTSKRTTCTTSTHQRQRKD TPPALNPHTATCTPPHTWLGAP PPASMRSGPHNAPTPPFTGSTPR HTHDHTNITNANIPHNVNSN

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15854	46222	A	15945	1	1228	MGVLNNWLSEEEESLWIQSRIHL RALRYYSNWRQYFAGYTFGRQ YWQSPEDDHLPLREFLARYER PMKNCWKILDIEETDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRI\AQSPAKSVWQPEE YEVAEHEILLAYRALLASDSER FLPSAWQRFIQQNLNYCSMEEID ELRWSLCTIAMNTAHLSEFCVV LLAERLRWLQEENTGEIDEEEL GSFLYAIAGNVFNFTILHLPV ARRPDICTQHNDQSRCEGYQIL SDKRGHQHGGGITALYQCGNA DPRAKGERLFFDAPAKDSTQTR AEDAHYAGSNNMSPPDQQGDG RKQIWESVRVHTPVRCQQRSLP VTSYLNNGGEIFNLIGLICRTRRIA ARWVKSHRNRRARSFECLKRHR FVVAFNRRKPGLV
15855	46223	A	15946	71	323	AAGAVVSAMPKAKGKTRRQK FGYSVNRKRLNRNARRKAA\R GSNDLEAEASLPEKKGNTLSRD LIDYVRYMVENHGEDYKVS GS
15856	46224	A	15947	48	627	AAGAVVSAMPKAKGKTRRQK\ FGYSVNRKR\MSRNAKRKAAR\ GLECSHIRHAWDHAKSVRQNL AEMGLA\VDPNRA\VPSRKRKV KAMEVDIEEEA*KNLYRKPYV LNDLEAEASLSEKKGNTLSRD LHLTMYRYMVENHGE\DYKAI A\RD\EKNY\QDTPKQ\RS\KIN VYKRFYPAEWQDFLDSLQKRK MEVE
15857	46225	A	15948	796	1301	LTKKDYISPNARKAFVQRLPER NLLTRGLKRQRQPCLSWCGG QARMPKAKG\KTRRQKFGYSV NRKRLNRNARRKAAAPRIE/CVR GLGFRVAVGLGRDGRDDGSA MSLFAGSSHIRHAWDHAKSVR QNLAEMGLA\VDPNMAVPLRK RKVLTWQGLGPCLLYSSPAILT
15858	46226	A	15949	512	675	SQDFGPPSAAPSPSGMP\PGPSG CSSHRQQEDPPDGAAAPP GHGL RPGRLQELLV
15859	46227	B	15950	1	717	

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15860	46228	A	15951	587	1387	RARSRLGNPLRPLAPPSNDV GVQRA\FRPIRCRKAQVPVGSV ANRRRLRQHTRPDPLGTNRSEP GWWDRSWSPDQAKSGQSCVA KIKNKNHMIISTDSEKAFDKIQH RFMIKTLISKISIQGTHFKIKAIC DKLTANIILNGEKLKAFPLRTE MRQGCPRLSLLFNIVLEVLA IRQEKEIKDIQIAKEEVRLSLFA DDMIVYLENPKDSFRKLELIK EFSKVSGYKIKNQYCENDHTA VSGVGSFQWICGLADVKNAA
15861	46229	A	15952	3	3201	SERGFRAGLRYPHFLSTNSV LASVTASLKEHPRGTLSDGSP ALSRNVGMTVSQKGGPQPTPSP AGPGTQLGPITGEMDEADSAFL KFKQTADDLSLTSPNTESIFVE DPYTASLRSEIESDGHEFEAES WSLAVDAAYAKKQKREVVKR QDVLYELMQTEVHHVRTLKIM LKVYSRALQEV\QFISTAIGRL FPCADDLLETHSHFLARLKERR QESLEEGSDRNYVIQKIGDLLV QQFSGENGDRLEIK
15862	46230	B	15953	83	1969	
15863	46231	A	15954	1	444	SSESAVEFSEPASGSSPSWELGS EGAIRDKKTSLGAHVGLSALGR ALENTIAFQKGKTDVQKSYDSP QGDCL\QDVKGKRPTLE*PSLE NPETRRFLDASYAWRESCLSW HHHTAHDIFAGKPDPLPGSTR QDSAVCSQGGFLIVR
15864	46232	A	15955	2	236	SEGAKRDKKTS LGAHVVL SAL GRALEKTIAFQGSS/APSKGRKL RSRKVMTRPKGIAWQDVKGKR PTLE*PSLENPEVR
15865	46233	A	15956	1	459	KKVGNYYTTPYRFRMKCHLC VNYIEMQTD PANCDYVIVSGA QRKEERWDMADNEQVLT TGE RHPLTCLGAL/DPESALGPPKPS RALIVAEHEKKQKLET DAMFR LEHGEADRSTLKKALAHT\ DHI QEAQSAWKDDFALNSMLRRRF REKKKA

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15866	46234	A	15957	564	1189	AAPKMGERKGVNKYYPPDFNP EEAWLSSTDYHNSHPFRERASG SCSQGILIRFEMPYNIWCEGVC RTNFGMGVRYNAEKKKVGNV YTTPIYRFRMKCHLCVNYIEMQ TDPANFDYVIVSGAQRKEERL GHWRTMNRLLTRHGIIEEA WKTDAMFRAGTMGRPTAAHF KKALPKLEPHSGRPRAPWKDD FALNSMLRRRFRVPSKP
15867	46235	A	15958	2	1047	FVDGKLHGRGSTDDIGPVAGWI NALEAYQKTGQETPVNVRFL EGMEESGSEGLDELIFARKDTF FKDVDCVCISDNVWLKKKKPCI TYGLRGICYFFIEVECSNKLHS GVYGGSVHEAMTDLILLMGSL VDKRGNILIPGINEAVAAVTEEE HKLYDDIDFDIKEFAKDVGAQI LLHSHKKDILMHRWRYPSLSLH GIEGAFSGSGAKTVIPRKVVGK FSIRLVNMTPEVVGEQVTSYL TKKFAELRSPNEFKVYMGHGG KPWVSDFSHP\HYLAGRRAMK TVFGVEPDLTREGGSIPVTLTFQ EATGKNVMLLPVGSADDGAHS QNEKLNRYNYIEGTKMLAAYL
15868	46236	A	15959	163	1388	RLVERWRPSGTLFKYIDENQDR YIKKLAKWVAIQSVSAWPEKR GEIRRMMEVAAADV KQLGGSV ELVDIGKQKL PDGSEIPLPILLA GRLGSDPQMKTVC IYGHLDVQ PAALEDGWDSEPF TLVERDGLT WCSSCRGPYCRGSS/DRLSWKL PSVMWGDSREPHLARLD\HPSG LEPQRPGSTWGGGDDRRGGRA LSRQLPYAGYAAAQCKGEVRP QVSSRLVVECSNKLHSGVY GGSVHEAMTDLILLMEEHKLY DDIDFDIEEFAKDVGAQILLHSH KSHLHLDLLPVVVRLLGQALFH TAHFPDNIPSSSKDILMHRWRY PSLSLHGIEGAFSGSGAKTVIPR KVVGKFSIRLVNMTPEVVGEQ ACGAGTRESMSSLGYPSRAED DSGLSALPSQPQPFILYAT

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15869	46237	A	15960	3	433	FETLFSQVQLFISTCNGEHIRYA TDTFAGLCIQLTNALVERKQPL RGIGILKQAIDKMQMNTNQLTS IHADLCQAITTPAMAV\SHIMLE SYKKYILVSLILLGKVQQLPKY TSP/QLVGRF\KPLSNA\YHEL RHKLY\STNNPC
15870	46238	A	15961	46	1481	TSGSDVAAREDLRWIAAAPPPR AAAFSRACCLRRSGRPGENMA SALEQFVNSVRLLLSQ\GCSCFP GQMTQLCELINMSGELLAKNLS HL\DTVLGAL\DVQEHSLGVLA VLFVKFSMPSPDFETLFSQVQ LFISTCNGEHIRYATDTWQETV LLKSMVLVLVVIYYQPLRGIGIL KQAIDKMQMNTNQLTSIHADL CQLCLLAKCFKAALPYLDGDM MDICKENGAYDAKHFLCYYYY GGMIYT\GLKNF\ERALYFYG\Q AITTPA\MAVRHIIW/ESYKKY ILVSLILLG\KVQQLPKIFHLKLV G*IPLSLLSNAYHELAQVYSTN NPSELRLNVNKHSETFTRDNN MGLVKQCLSSLYKKNIQRLTKT FLTSLQDMASRVQLSGPQEA KYVLHMIEDGEIFASINQKDG MVSFHDNPEKYNNPAMLHNIDQ EMLKCIELDERLKAMDQEITVN PQFVQKSMGSQEDDSGNKPSS
15871	46239	B	15962	1	3411	
15872	46240	A	15963	689	925	
15873	46241	A	15964	1	244	GSAPQSCASPAPVSRSAAPGTA EAAEPWAIIVPGVEQKNYYVCV PLGLIGNCTVTSSGI\SLDCADW CLKWKSILMESLEVP
15874	46242	A	15965	469	604	
15875	46243	A	15966	286	433	
15876	46244	A	15967	4356	4643	DCPLARNKSKPQTVCLKARQTF QAINFSRALRITGYLTSFPLSRS TLPSSAGDFRASAWA*SGPTV* TLTSVPSVGINSSYIYEPVFRTLL SGE
15877	46245	B	15968	1	1472	

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15878	46246	A	15969	918	1619	KTHVLSWGS PKSTWKAGWLQ KQKTTQEKKAESKAPIEEEPAG AGLNKDKETEERSDGERVAEV APEERENVAVAKLQESQPGNA VSCSGGRRKEDEREDWGKRTQ RTHPPAAAQAPGQCPPGSTEVG AGGGLRWTPSPGRQPAGVAAD MGITVLTVP LQRCLQNSWAKE PVLVVSFVIGSLTVILPPLSPYTK YSIMINEATPYNYPVPVHDDGN M/PDMCSHPQGPQGPSLEWL
15879	46247	B	15970	183	459	
15880	46248	A	15971	864	1197	GSFRLGHGRIPPFHLRGMKESL GPDFGDPCPVCPLNSGPGPPGV SAGGAGAGCGGMGRRDAWVP TGPVAESPGGHLAPISPRQGA PWGGPCGQLGAGTLGQAVCG MTQDP
15881	46249	A	15972	1	441	
15882	46250	A	15973	3	182	
15883	46251	A	15974	23	475	PLEKGRQFY PQYEDQITFTDYL EEYPTDEL VWILWKQHLLKT EKSKLLSDISARLWFTYRRKFSP /ILGGTGPSSDAG\WGCMRLCG QMMLA\QAL\ICRHLGRDWSW EKQIEQPQEYQRILQCFLNRKD CCYSIHQMAQMVGEGKSIGE
15884	46252	A	15975	224	418	
15885	46253	A	15976	743	1220	WCWGHRVRLVLAAGPSSRGVL LLLVLPSWASFLVRVCAWVG VLGDDGVLGGFLLWLG VVGRP LAVLRADLAVCVGVV CACVPF VVLPCAALVRVGCSLVEAALG \LGARPLKTFFAVVVPLTKGGV VAGSMLVFVPAVGEFVIPLELLG GPDSIVIGRV
15886	46254	A	15977	3	3492	RKHKVGILYCKPGQSSEEEMSN NEEAGPAFEKFLSLIGEKVCLK GFTKYAAQLDVKTDSTGTHSL YTM YQDY EIMFHVSTLLPYTPN NRQQLLRKRHIGNDIVTHIFQEP GALPFTPKNIRSHFQHVFIIVRV HNPCTDNVCYSMAVTRSKDAP PFGPPIPSGTTRKSDVFR\DFLL AKVI*RLRNAAEQVPTSFTPWA TRTRQEYLKDLAENCVSNTPID STGKFNLISLTSKKKEKTKARA GAEQHSAGAIA
15887	46255	B	15978	402	2884	



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15888	46256	A	15979	294	1721	AVRPGRHDPSAGLRSAASQ* VRGHPGGLCA*GSIQGPASAA EGPPAHSRAA*SKGGAELRTR* AGGRRPAGPHAQRP*LP*GPRV PLRPPSGTFLLP/PPACTPITSRPS *KSCSRASTPPTWSS*IPASGTSP GMVRTPGEA\PGEPGEVPVPG PGAARVLPPGVE/PRPCLWARK SPGVFFRPSSGGRRPPS*KTKWS KPTSTAPRP\*T*LRCTGLAFPL PPREGEPALGRGALEWTCAPLP LPAAAGPRGRRLGCGAAPPPR GRVDQEEK\GPRVEGPPQANR NHPALPLSPPLSPPT/*PPPAWVP TPALAAAPAPVPTASSSHSPSPG NAPVPTGSPRCLFFLRPYFPVGS ILLPFRCLISPCRFLRRRQFYG WSSAAYALLPHTPLSAACPSGP TTALHGQPQSSCSCCQEATFTV KSGVVQSGRPSLRQFYVHDFCK IQPQQLLVSHATTKATTDRYST ASCVAR
15889	46257	B	15980	35	314	
15890	46258	A	15981	1	197	
15891	46259	A	15982	3	3889	
15892	46260	B	15983	172	287	
15893	46261	A	15984	8	166	
15894	46262	A	15985	250	1095	
15895	46263	A	15986	366	870	NHSLAKKGTAHGLGMEKCCGR SPFFSFFPSWIAKPTLRSSSSWPH SSSSPSMSSPLQRAVGDT\KRAL SASSSSASLPFDDRDSNHPSEA CTTPGGGWEVADGNTDSLAD EGSDFEDSFNRNVKKKAARPP KTPPV/AKQPKKGSRVVHRHSR KQSEPPANDLFNAV
15896	46264	A	15987	30	229	ALETNIGSSYNYGSEDQAEFLC VVSKE LHSTPNGLSSESRKTK\ CYKPEAPGCEAPDHLQGLGVPI
15897	46265	C	15988	1	930	
15898	46266	A	15989	1	609	

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15899	46267	A	15990	1	875	MRMEAGEAAPPAGAGGRAAG GWGKWVRLNVGGTVFLTRQ TLCREQKSFLSRLCQGEELQSD RDETGAYLIDRPTYFGPILNFL RHGKLVLDKDMAEEGVLEEEAE FYNIGPLIRIIKDRMEEKDYTVT Q\VPPKHVYRVL\QCQEEELTQ MVSTMSDGWRFEQLVNIGSSY NYGSEDQAEFLCVVSKELHSTP NGLSSESSRKTKSTEEQLEEQQ QQEEVEVEVEVEVQVQVEADAQ EKGSRPHPLRPEAELAVRASPR PLARPQSCHPCCYKPEEPGCEA PDHLQGLGVPI
15900	46268	A	15991	1	2448	MRRGETSRPPQCWFAHV SRSSRRGEFFSFDRWKKHRSEV RESAQVPTTKREPVLQHKINIK IVIALVDILFALGLGNLVCVSPV QLFSVQTDSDRATGDQRLPSWT AQRYGTRTLGPDGFTERCYPYGP SPESLLCSALPWLRDLGMPVAE APQVAGGQDGGDGEEAEPEG MFKACEDSKRKARGYLRLVPL FVLLALLVLASAGLEMLSDPGS RSYGSGLLPAWAKCPKAPHQR SLIPPDYAPGVNHPPQERCSM GLRTQGTGLGRHRVLSAQQVAF SVSLLMAKIAFAKQKSDDIIPDF KLFMVTLVHRPNRLSARVLT VPVLPAPCPMLLPLEGYKAEV MVSQVYSGSLRVLNHRFSQDL TRRESSAFRSETAKAQKMLKEL ITSTRLGTYYNSSSVYSFGEGPL TCFFWFILQIPEHRRMLSPPEV QALLVEELLSTVNSSAAPPYRA EYEVDPPEGLVILGQYCEWKPPG RRMQTPRPAMRMEAGEAAPP GAGGRAAGGWGKWVRLNVG GTVFLTRQTLTLCREQKSFLSRL CQGEELQSDRDETGAYLIDRDP TYFGPILNFLRHGKLVLDKDMA EEGSQVWTVTSGGWGDRNAV LTGMGRALSFLWLIQYLFCL VRAWVLEEAFFYNIGPLIRIIKD RMEEKDYTVTQVPPKHVYRVL QCQEEELTQMVSTMSDGWRFE

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15901	46269	A	15992	1	573	MPGLLSRPRRGSLRARPCGGGE ALPEHVAIDVCPGPIRPIQQISG YFPHFPRDLPHDAPARPATASA GRRRPSDGDARDHDKDGDHDLFG SLTIQHRPW/PAPSPDFPFTPFVAV LYPGGLKPMDHNGLADPCVKL HLRPGARKVPEACQLAPDLQD SSCLTAITKAHDVLTFLPAAL KIQGNKYLTFIQCQKLF
15902	46270	A	15993	500	2022	WTREKEPPGVETHGKASRTTL GLSLWCCLHLSEIQSSFISDCAR PRCSGRLPGSGPMLLATPHVLA TVVASSCSKQLWWLPPKVATD QQQMMLKGLFIAGAPPGSPR/G VQPHLQPIRNMVSRTMEDSCE LDLVYVTERIIAVSFPSTANEEN FRSNLREVAQMLKSKHGGNYL LFNLSERRPDITKLHAKVLEFG WPDLHTPALEKICSICKAMDTW LNADPHNVVVLHNKGNRGRIG VVIAAYMHYSNISASADQALD RFAMKRFYEDKIVPIGQPSQRR YVHYFSGLLSGSIKMNNKPLFL HHVIMHGIPNFESKGGCRPFLRI YQAMQPVYTSGIYNIPGDSQTS VCITIEPGLLLKGDILNSEILFGV DELSLTGFGLKCYHKKFRSPAR DVIFRVQFHTCAIHDLGVVFGK EDLDDAFKDDRFPEYGKVEFVF SYGPEKIQGMEHLENGPSVSVD YNTSDPLIRWDSYDNFSGHRDD GMEGAQHPPQIGQDTPPGPSDPP
15903	46271	A	15994	171	720	LSGSSAGKVAAPCVPPSNHEL PITTENAPKNVLDKGERPSRGG NTRKSLE\TTASTGSPR/GVQPH LQPIINMNVSRRTMEDSCELGPV YRTERNIAVSFPSTANEENFRSN LREVAQMLKSKHGGNYLQRN VSL/RRLSPSLRHPGPWPPSQEP GMCQGEPPGPPATLWPMPCGPT VLESPGGPGP
15904	46272	B	15995	145	972	

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15905	46273	A	15996	2	1096	WPVLTAAGCWLQDPAGHRGG RAGGAGRAVLFLQLQAGRAELR GLRARGWARSWAPAPGCQRTG RDAAAAGRRAGRAGALLGFTC LLLAALCGHLGPSWRGGLAPG GEWIWLRASETTRGPSGPRPALM GSQKIRNITRTRHGPHLWLHSG CTTATPFCLTRSCSDAACSLKG LPCLCPCGLSVLIRVRLELRRHQ RAGHTIPRIFQAVVQRQPERLA LVDAGTGECWTFAQLDAYRNA VANLFRQLGFAPGDVVAIFL/E GRPEFVGLWLGLAKAG/MEAA LLNVNLRREPLAF/CLGTSGAK ALIFGGEMVRAPPPNAQAPPLT PVSPADRLFYIYTS GTTGLPKA AIVVHSSARPSCPSRSLRAAHR
15906	46274	A	15997	397	597	SIKSPEIHSPSTRIRMGCSLPT EAHAEGVIELSRIKCVEIVKSD/ DRIPCHYKYPFQVSPSGGSSP
15907	46275	A	15998	1922	3886	EGDNKLPRIRRKLFPLVVLRG DAQGAPPFKNWIMNNFILLEEQ LIKKSQQKRTSPSNFKVRFFVL TKASLAYFEDRHGKKRTARKGS IELSRIKCVEIVKSDISIPCHYKY PFQVVHDNYLLYVFAPDRESR QRWVLALKEETRNNNSLVPKY HPNFWMDGKWRCSSQLEKLA TGCAQYDPTKNASKKPLPPTPE DNRRPLWEPEETVVIALYDYQT NDPQELALRRNEEYCLDSSEI HWWRVQDRNGHEGYVPSSYL VEKSPNNLETYEWYNKSISRDK AEKLLLDTGKEGAFMVRDSRT AGTYTVSVFTKAVVSENNPCIK HYHIKETNDNPKRYYYVAEKYV FDSIPLLNYHQHNGGGLVTRL RYPVCFGRQKAPVTAGLRYGK WVIDPSELTFVQEIGSQFGLV HLGYWLNKDKVAIKTIREGAM SEEDFIEEAEMMKLSHPKLVQ LYGVCLEQAPICLVFEFMEHGC LSDYLRTQRGLFAAETLLGMCL DVCEGMAYLEEACVIHRDLAA RNCLVGENQVIKVSDFGMTRF VLDDQYTSSTGTFPVK WASPE VFSFSRYSSKSDVWSFGVLMW EVFSEGKIPYENRSNSEVVEDIS TGFRLYKPRLASTHVIYQIMNHC WKERPEDRPAFSRLLRQLAEIA
15908	46276	B	15999	58	1526	